

Office of the Vice-President for Graduate Studies, Research, and Innovation



LETTER FROM THE VICE- PRESIDENT'S OFFICE

UPE celebrates its 27th anniversary as a University with a view to the future, seeking excellence in Research and Innovation. The investment in the Undergraduate Research, Graduate, and Innovation Programs have been key to the growth of UPE by increasing its visibility and importance within the State of Pernambuco. For the next 10 years, consolidation of Research and *Stricto sensu* Programs will be a goal to be pursued, not only to obtain CAPES higher scores, but also contribute to the strengthening of Pernambuco state actions as well as to the qualification of personnel required by productive, industrial and educational sectors.

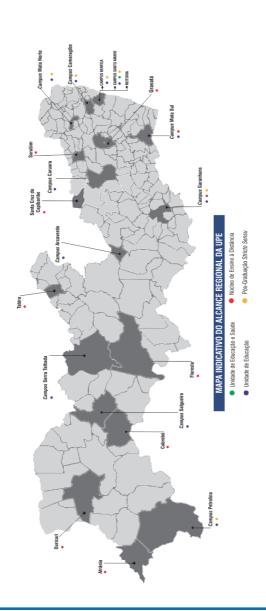
Above all, I emphasize that this process requires investment focused on securing doctors in UPE academic programs. Today we are heavily investing in the support of qualified scientific production as well as in the process of internationalization and qualification of research labo ratories with a view to consolidation of the *Stricto senso* in UPE.

Therefore, the research groups here listed, whether or not linked to graduate studies, provide information about those responsible for the scientific production of UPE.

Maria Tereza Cartaxo Muniz

Vice-President for Graduate Studies, Research, and Innovation

UNIVERSITY OF PERNAMBUCO REGIONAL REACH



PROPEGI

PROPEGI stands for Office of the Vice-President for Graduate Studies,
Research and Innovation of the University of Pernambuco whose mission is
to lead, coordinate, and support efforts and productions of the
institution in the areas mentioned.

FULL LIST OF RESEARCH GROUPS:

AGRARIAN SCIENCES (1)

• Natural Resources of Caatinga

Studies focused on Caatinga in different areas of knowledge aimed at the expansion of scientific knowledge and technological development in the region.

Lines of Research:

Renewable Energy

Biotechnology

Characterization of Ecosystems and Sustainable Development

Development and Environment

Environmental Education

Natural Sciences Teaching – Biology, Chemistry and Physics

Arbuscular Mycorrhizal Fungi: Biodiversity, Ecology and Bio-technological

Application

Lead Investigators: Regina Lúcia Félix de Aguiar Lima

Claudemiro de Lima Júnior

Contact: regina aguiar@hotmail.com

BIOLOGICAL SCIENCES (15)

Biodiversidade

The group works with the dynamics of terrestrial communities and aquatic

environments, studying the mechanisms that generate and maintain biodi-

versity in protected areas and in those under different degrees of environ-

mental impact. The group also aims to train specialists and train taxono-

mists, who are fundamentally needed to increase knowledge of biodiversity

in Brazil. Researchers are currently developing studies on the biodiversity

of coastal tidal areas, in areas of Atlantic forest and areas of the Pernam-

buco wilderness. The studies conducted by the researchers can be used by

private and public companies and government agencies as a basis for ac-

tions aimed at the sustainable exploitation of natural resources and / or en-

vironmental preservation.

Lines of Research:

Bioindicators

Marine, Coastal and Immunological Biology

Plant Ecophysiology

Benthic Ecology

Ecology of Marine Benthos

Population Ecology

Ecological Modeling

Lead Investigators: Betty Rose de Araujo Luz

Filipe Martins Aléssio

Contact: betty.luz@upe.br

• Biotechnology and Therapeutic Innovation

The research group Biotechnology and Therapeutic Innovation in UPE / Campus Garanhuns is composed of researchers who seek, in addition to the training of their students, to develop methods, analytical tools and biotechnological and biopharmaceutical products in laboratory scale that can contribute to the resolution of aggravations to health and diseases.

Lines of Research:

Molecular Biology and Biomarkers

Biomaterials and Drug and Protein Releasing Systems

Microbial Enzymes

Applied Microbiology

Lead Investigators: Fábio Rocha Formiga

Contact: fabio.formiga@upe.br

• Agricultural Crops and Caatinga in the Lower Middle Part of São Fran-

cisco Valley

Knowledge of the biological processes that occur in the agricultural crops of the Lower Middle Part of São Francisco Valley and in Caatinga, by using microbiological and genetic indicators; Understanding the effects of management practices in the Lower Middle Part of São Francisco Valley on crop production and on organisms involved in maintaining these crops; Knowledge about possible diseases caused by phytonethogens in crops of this same region; Knowledge of the quantity of nutrients and quality of food products (fruits, tubers, etc.) originated from the cultures of the Lower Middle Part of São Francisco Valley; Identifiction of the organisms present in the agricultural areas and in caatinga by using traditional taxonomy and genetic tools; Knowledge of soil morphology in crops and in caatinga, and its relationship with soil organisms; Knowledge of the health of rural workers in these areas for possible future interventions, improving their quality of life; Knowledge and application of Environmental Education in the Lower Middle Part of São Francisco Valley.

Lines of Research:

Nutritional Assessment of Agricultural Products originated from the Lower Middle Part of São Francisco Valley;

Knowledge and Application of Environmental Education in the Lower Middle Part of São Francisco Valley;

Diseases Caused by Phytonematodes in the Cultures of the Lower Middle Part of São Francisco Valley;

Arbuscular Mycorrhizal Fungi Associated with Cultivated Plants and Caatinga Plants in the Lower Middle Part of São Francisco Valley;

Genetics of Organisms Present in Cultures and in Caatinga of the Lower Mid-

dle Part of São Francisco Valley;

Soil Morphology in Crops and in Caatinga in the Lower Middle Part of São

Francisco Valley;

Products of Biotechnological Importance Obtained from Fungi Filament In-

dices from Crops and Caatinga in the Lower Middle Part of São Francisco

Valley;

Quality of Agricultural Soils and Caatinga Soils in the Lower Middle Part of

São Francisco Valley by Using Microbiological and Genetic Indicators;

Health of the Rural Worker in the Cultivated Areas of the Lower Middle Part

of São Francisco Valley;

Lead investigators: Maryluce Albuquerque da Silva Campos

Leilyane Conceição de Souza Coelho

Contact: marylucecampos@yahoo.com.br

• Ecology of Aquatic Ecosystems

Ecology of aquatic ecosystems (marine, continental and estuarine) with

special emphasis on plankton: trophic interactions and ecological modeling.

Lines of Research:

Plankton Ecology

Environmental Education

Ecological Modeling

Lead investigators: Mariana Guenther Soares

Contact: mariana.guenther@upe.br

• Group of Studies in Ethnoecology and Ecology of Tropical Fish

To carry out bioecological studies on the tropical ichthyofauna of marine,

estuarine and freshwater ecosystems in order to understand the natural

history of fish and their relationship with the environment. To study the re-

lationships between fishermen / fisherfolk communities and the environ-

ment with a systemic approach.

Lines of Research

Tropical Fish Ecology

Ethnoecology

Lead Investigators:

Simone Ferreira Teixeira

Susmara Silva Campos

Contact: teixeirasf.upe@gmail.com

Medical and Applied Microbiology

The work of this group in the area of medical and applied microbiology has

the purpose of characterizing isolated bacterial of medical importance by

molecular techniques. In this regard, molecular typing and detection of

genes involved in mechanisms of bacterial resistance are developed, espe-

cially in isolates that cause nosocomial infection. Hospital infection out-

break control measures are expected to be improved through the identifi-

cation of outbreaks of infection and clones prevalent in the hospital setting.

Research lines:

Molecular Characterization of Pathogenic Bacteria

Lead investigators:

Márcia Maria Camargo de Morais

Contact: marcia.morais@upe.br

Biological Modeling

Biological Modeling is a multidisciplinary research group that has life as the

focus of study, through the identification of models inserted in biological

processes and that proposes models as a research tool in the bio-medical

area. The proposed models are representations that simulate the behavior

or activity of biological systems or processes, and may include the use of

mathematical equations, computers and other electronic equipment.

Lines of Research:

Protein Packaging

Health Education

Bone Modeling

Osteoporosis

Memory Processes

Quality of life

Recognition of Patterns in Medical Images

Lead investigators: Rita de Cássia Moura do Nascimento

Contact: rcassiamoura@yahoo.com.br

• Environmental Monitoring in Coastal Areas

This research group has been attending a series of calls for environmental

studies in the coastal region of Suape, south coast of the State of Pernam-

buco, particularly in faunal inventories and rescue programs. It has been

strengthened in Financing Agreements, with research in the P & D Area by

the National Agency of Electric Energy - ANEEL.

Lines of Research:

Ecology of Biofouling

Ecology of Limnetic and Terrestrial Fauna

Ecology of Macro and Benthic Megafauna

Macroalgae Ecology

Environmental Management

Taxonomy and Ecology of Sessile and Sedentary Invertebrates, with a View

to Bioinvasion Analysis.

Lead investigators: Múcio Luiz Banja Fernandes

Contact: muciobanja@gmail.com

Applied Morphology

To develop and elucidate morphological aspects applied to Biological Sci-

ences, with emphasis on Human Health.

Lines of Research:

Craniofacial Growth and Development

Teaching and Reflective Study of Education in Biology and Health

Fundamentals of Histological Techniques

Craniofacial Imaginology

Computer-Assisted Surgical Simulation and Virtual Planning

Teaching Practices in Biology and Health Teaching Laboratories

Nerve Regeneration

Toxicology in Embryonic Development

Lead Investigators: Joaquim Celestino da Silva Neto

José Romero Souto de Sousa Júnior

Contact: joaquimcelestino@hotmail.com.br

• Morphology and Systematics of Angiosperms with Emphasis on Semi-

Arid Flora

Taxonomic and nomenclatural studies of representatives of Malvaceae; de-

scriptions and identifications of morphotypes; integration of the group with

the courses of Bachelor of Biological Sciences (traditional learning) and

Bachelor of Biological Sciences (distance learning), both from the University

of Pernambuco, through the curricular components of Botany and related

areas; publication of articles in scientific journals.

Lines of Research:

Contribution to the taxonomy of Herissantia Medik. (Malvaceae) with em-

phasis on the species of Brazil

Morphology and Systematics of Malvaceae

Taxonomy and Systematics of Sida L. and Sidastrum E.G. Baker (Malvaceae,

Malvoideae), with emphasis on the species of the Northeast of Brazil.

Lead Investigators: George Sidney Baracho de Souza

Contact: georgesidney@hotmail.com

Systematics, Ecology and Management of Tropical Biota

Development of studies on the functioning and dynamics of the mangrove

ecosystem; improvement of research methodologies; evaluation and per-

formance of ecosystem restoration work as well as impact analysis; envi-

ronmental management and environmental education projects for coastal

areas.

Lines of Research:

Mangrove Ecology

Ecology and Conservation of Fauna

Ecology and Management of Tropical Fish

Fishery Resource Ethnoecology

Plant Physiology

Lead Investigators: Simone Ferreira Teixeira

Gilberto Dias Alves

Contact: teixeirasf.upe@gmail.com

• Fungi of Biotechnology Importance

The group has defined biotechnological strategies by employing arbuscular

mycorrhizal fungi to maximize the production of bioactive compounds with

pharmacological properties in plants native to Caatinga. In addition, bio-

chemical and microbiological quality studies of semi-arid soils have been

conducted. The team works to increase the visibility of the University of

Pernambuco in the development of low cost technologies that improve en-

vironmental quality.

Lines of Research:

Applied Molecular Biology

Ecology and Systematics of Cryptogenes and Phanerogams

Phytochemistry Applied to Mycology

Arbuscular Mycorrhizal Fungi

Medicinal plants

Biochemical and Microbiological Quality of Soil

Lead Investigators: Fábio Sérgio Barbosa da Silva

Francineyde Alves da Silva

Contact: fabio.barbosa@pesquisador.cnpg.br

Biochemistry of Macromolecules

The biochemistry research group of macromolecules has presented rele-

vant productions in the biochemistry field of lectins, epidemiological and

biomolecultural studies in infectious and degenerative diseases, as well as

in the genetic polymorphism of folate route enzymes and its correlation

with blood diseases. Recently, some members have been focusing on the

study of polymorphism of mannose-binding lectin (MBL) and the suscepti-

bility or resistance to infectious diseases and blood diseases.

Lines of Research:

Biochemistry of Protease Inhibitors

Biochemistry of Lectins

Epidemiological and Biomolecular Studies of Hepatitis

Pathophysiological Studies of Biological Systems in Chronic Diseases

Immunodiagnosis

Immunopathology of Dengue

Mannose Binding Lectin Polymorphism

Genetic Polymorphism of Immunity Proteins

Genetic Polymorphisms in Degenerative Diseases

Lead Investigators: Maria do Socorro de Mendonça Cavalcanti

Contact: socorro.cavalcanti@upe.br

• Environmental Biology

Research focused on the environmental field, with the goal of integrating

students and professors in the field of interdisciplinary research, aiming at

raising the knowledge level of the group through integrated practices.

Lines of Research:

Biology, Environment and Health

Environmental Education

Studies of Fauna, Flora and Microbiota of Pernambuco

Lead Investigators: Ubirany Lopes Ferreira

Viviane Lúcia dos Santos Almeida de Melo

Contact: viviane.almeida@upe.br

Human and Animal Genetics

This research group has as its main objective studying children's cancer at

the level of cytogenetics and molecular biology, since the laboratory that is

to support the research has recently joined the National Diagnostic Center

of Childhood Cancer as a reference laboratory in this area. In addition to

studies in the field of human genetics, research has also been conducted

on cytogenetics and insect cytotaxonomy, with the general objective of

studying genetic variability and identifying chromosome markers in this

group of organisms.

Lines of Research:

Human Cytogenetics

Epidemiology

DNA polymorphisms

Cell Therapy

Oncogenic Viruses

Lead Investigators: Maria Tereza Cartaxo Muniz

Contact: tereza.cartaxo@upe.br

HEALTH SCIENCES (45)

Human Performance Assessment - ESEF

The Human Performance Assessment Study Group officially began in 2002, as a result of the work carried out by the Human Performance Group, linked to the extinct ESEF-UPE Physical Education and Sports Laboratory, created in 1995. With the official implementation of CENESP- UPE (Sports Excellence Center, linked to the Ministry of Sports) and with the acquisition of stateof-the-art equipment the great growth of the area began in 1998. Our objective is to study the organic responses to motor activities and to develop technology in the fields of physiology, biochemistry, cineanthropometry and biophysics as a factor of performance evaluation and improvement of physical and sports aptitude in apparently healthy populations, athletes and also in populations with special needs. The Research Group on Human Performance Assessment - ESEF / UPE guarantees support to the Post-Graduation Program in Physical Education, especially in the area of Health and Human Performance.

Lines of Research:

Biodynamic Aspects of Human Performance

Metabolism and Physical Exercise

Lead Investigators: Manoel da Cunha Costa

Fernando José de Sá Pereira Guimarães

Contact: mcosta2@gmail.com

Oral Cancer

This research group has as main objective the study of oral cancer (etiology,

prevention, diagnosis) by using molecular biology methods to verify genetic

alterations in the methylenetetrahydrofolate reductase (MTHFR) gene as-

sociated with susceptibility to oral squamous cell carcinoma and human

papillomavirus (HPV) infection. The technical support is provided by the

Center for Pediatric Oncohematology – CEONHPE, a reference laboratory

that integrates the National Center for the Diagnosis of Childhood Cancer.

Lines of Research:

Genetic Alterations and Mouth Cancer

Popular Health Education

Risk Factors for Oral CPC

Dentistry in Oncology

Viral Research

Prevention and Early Diagnosis of Oral Cancer

Lead Investigators: Aurora Karla de Lacerda Vidal

Contact: <u>aurora.vidal@upe.br</u>

Forensic Sciences (Legal Medicine and Legal Dentistry/Civil, Penal and

Constitutional Law)

The goals are: To promote an extensive diagnosis of the epidemiological,

clinical, ergonomic, laboratorial, environmental, expert and jurisprudential

aspects of occupational pathologies, locally and nationally, in order to dis-

seminate and socialize information for all those who work in the different

areas of Occupational Health.

- To deepen the dynamics of evaluations in the field of identification and

mapping of environmental risks.

- To promote studies on the experts' work in the scope of Labor Justice and

Federal Justice (Civil Courts and Federal Special Civil Courts).

- To promote studies on the behavior of RSI - repetitive stress injuries /

DORS (work-related osteomuscular disorders) at regional and national lev-

els, including assessments of the social, economic and jurisprudential reper-

cussions of these pathologies.

- To promote studies on: Medicine and Legal Dentistry (Violence, Trauma-

tology, Tanatology, Anthropology, Entomology and Forensic DNA); Medi-

cine and Dentistry at work (Occupational Health and Biosafety).

- To promote studies on: Legislation, Ethics, Bioethics and Criminal Law, La-

bor Law, Civil Law, Constitutional Law and Bio-Law.

- To promote studies on the experts' work in the scope of the Institutes of Legal Medicine and Criminalistics.

Lines of Research:

Forensic Anthropology and Genetics

Bio-Law and Applied Legislation

Forensic Science and Skills

Civil Law (Civil Liability)

Labor Law, Inferential Law and Forensic Science

Criminal Law and Forensic Science

Entomology and Forensic DNA

Identification and Mapping of Occupational Risks

Human Identification

LER (Repetitive Strain Injuries) / DORT (Work-Related Osteomuscular Disor-

ders)

Perspectives on the Right to Human Life

Forensic Radiology

Forensic Toxicology

Trauma - Forensic, Medical and Dental Aspects

Trauma - Attacks by Large Marine Animals

Violence

Lead Investigators: Marcus Vitor Diniz de Carvalho

Evelyne Pessoa Soriano

Contact: carvalho marcus@yahoo.com.br

Oral and Maxillofacial Surgery

The goal of this research group is to develop, perfect and determine the

best conducts with reference to surgical techniques, materials, instru-

ments; pre-operative, intraoperative and postoperative medications in

Oral-Maxillofacial Surgery and Traumatology and tissue regeneration; Hu-

man resource training.

Lines of Research:

Diagnosis and Epidemiology of Oral Injuries

Tissue Engineering, Bone Regeneration and Stem Cells

Study of Operative and Therapeutic Techniques in Oral-Maxillofacial Sur-

gery

Nerve Injury and Microsurgery in Oral-Maxillofacial Surgery

Pathology of the ATM

Oral-maxillofacial Traumatology

Lead Investigators: Belmiro Cavalcanti do Egito Vasconcelos

Contact: belmiro@pesquisador.cnpq.br

Diagnostic Imaging

The goals are to verify and establish radiological parameters in devices and

systems that produce high image quality;

To study root fractures, periapical bone lesions, periodontal lesions and

maxillomandibular complex lesions.

Lines of Research:

Quality Control of Radiological Imaging Systems

Methods of Imaging for Temporomandibular Joint

Osteointegrated Implants

Prevalence of Oral Cavity Changes

Cone Beam Computed Tomography

Lead Investigators: Luciane Farias de Araujo

Contact: lufarias radio@hotmail.com

Clinical Epidemiology

With the current change in the epidemiological profile of dental caries in

Brazil, diagnosis has become more important, since it may indicate more

preventive and lower-cost therapy for services and for the population. In

this context, the discussion about the methods and factors to be considered

in the diagnosis and decision of treatment of dental caries becomes im-

portant in the sense of avoiding unnecessary invasive procedures. Similarly,

in periodontal diseases, although they have a lower prevalence in Brazil, it

is observed that the therapeutic indications are not uniform and that fac-

tors other than the patient's health are taken into account. In Recife, there

are strong indications that teeth are restored for reasons unrelated to the

patient's health. Because there are no studies that relate therapeutic atti-

tude regarding dental caries, pulp and periapical diseases and periodontal

diseases with the the dental surgeon's socioeconomic and demographic

data, this research group was established with the purpose of conducting

cross-sectional epidemiological studies, seeking proposals for the solution

of this problem.

Lines of Research:

Dental cavity

Treatment Decision

Temporomandibular Dysfunction

Periodontal Disease

Epidemiology

Odontogeriatrics

Evidence-Based Dentistry

Special Patients

Dental Loss

Recurrent Acidosis

Violence

Lead Investigators: Arnaldo de França Caldas Junior

Fliane Helena Alvim de Souza

Contact: caldasir@alldeia.com.br

• Epigenetics, Immunobiology and Fiosiopathological Mechanisms and

Alternative Therapies in Infectious Diseases

This group has a partnership with the Liver Institute of Pernambuco (IFP),

Aggeu Magalhães Research Center, Federal University of Pernambuco and

IOC-FIOCRUZ-RJ to develop research within the lines of viral immunology,

immunopathology and molecular biology. At our university, UPE, it is the

only group to study epigenetic factors in infectious diseases. Together with

the IFP we assist in the implementation of screening for the IL28B mutation

in the targeting of treatment for Hepatitis C. The patent for kit and pro-

cesses for the diagnosis of liver fibrosis is currently one of our most im-

portant researches.

Lines of Research:

Development of New Technologies for the Treatment of Infectious Dis-

eases

Immunomodulation of Antiviral and Anti-parasitic Response

Epigenetic Markers Associated With Susceptibility and Progression of Infec-

tious Diseases

Lead Investigators: Patrícia Muniz Mendes Freire de Moura

Contact: patricia.moura@upe.br

Studies in Dermatology

The research lines outlined by this group are aimed at the clinical and labor-

atorial study of our outpatients' most frequent diseases in order to benefit

society by improving medical practice through research. In scientific initia-

tion work, the leishmaniasis and AIDS co-infection among patients seen in

two State Reference Services was evaluated retrospectively. The results

showed a low frequency of co-infection, and a prospective study was rec-

ommended. The study evaluated the frequency of association of psoriasis

and metabolic syndromes, finding a high incidence as well as more exten-

sive forms of the disease. This research group works with projects in Amer-

ican cutaneous and mucosal leishmaniasis, relapsing cutaneous leismania-

sis aiming at the clinical, epidemiological, laboratorial and therapeutic pro-

file of the study population.

Research lines:

Acne

Infectious and Parasitic Diseases in Dermatology

Neoplasms

Onicopathies

Psoriasis

Lead Investigators: Ângela Cristina Rapela Medeiros

Contact: rapelaac@yahoo.com.br

Studies in Hematology

The Research Group on Hematology (GPEH), established in the University

of Pernambuco (UPE) and Hemocentro de Pernambuco (HEMOPE), devel-

ops research, teaching and assistance activities. The main lines of research

are clinical and molecular studies on blood diseases, especially adult onco-

hematological hemorrhages. Scientific production includes publications and

works presented at local, national and international scientific events with

awards. The members of the GPEH participate in UPE / HEMOPE education

and offer courses, training, orientation and tutoring to undergraduate and

graduate students. The professionals of the group provide assistance to he-

matological patients with activities in the hematological clinic and conduct

qualitative and quantitative molecular tests.

Lines of Research:

Clinical and Hematologic Studies in Hemopathies

Molecular Studies in Hemopathies

Lead Investigaors: Raul Antônio Morais Melo

Contact: raul.melo@outlook.com

Studies in Health, Rehabilitation and Functional Performance

First research group of UPE in the area of Rehabilitation, which aims to bring

together researchers from the areas of Physiotherapy and Physical Educa-

tion to conduct research projects related to the study of human movement,

evaluation, prevention and treatment of major diseases that compromise

health. The creation of the research group allows for greater interaction

among the professors and the strengthening of lines of research within the

institution.

Lines of Research:

Biomechanical Analysis and Functional Intervention in Human Movement;

Evaluation and Intervention in Physical Therapy in the Health of Women,

Children and Adolescents.

Lead Investigators: Rodrigo Cappato de Araújo

Ana Carolina Rodarti Pitangui de Araújo

Contact: rodrigocappato@yahoo.com.br

• Ethnographic Studies in Physical Education and Sport (ETHNOS)

Congregating people interested in researching the pedagogical practice of

Physical Education (its contents, manifestations, interfaces and institution-

alizations) whether in school or in other social spaces, ETHNÓS seeks ap-

proximations with the epistemological foundations of the Dialectic Ap-

proach in the materialist-historical and the hermeneutic-dialectic aspects.

Our choice is due to the intention of carrying out ethnographic methods,

having as common elements the bibliographic study, observation, descrip-

tion and analysis of the cultural manifestations of the subjects in order to

recognize in the collected data and in their analyzes, senses, contradic-

tions, reality and possibilities. ETHNÓS is linked to the Pedagogical Practice

and Professional Training in Physical Education line of research which be-

longs to the area of concentration "Culture, Education and Movement".

Lines of Research:

Physical Education

Physical Education, Culture and Dance

Teacher Training in Physical Education

Recreational Practices and Physical Education

Public Policy and Physical Education

Lead investigators: Lívia Tenório Brasileiro

Marcílio Souza Júnior

Contact: livtb@hotmail.com

• Exercise and Chronic Noncommunicable Diseases

The purpose of this group is to develop research in the area of prescription

of physical exercise for the prevention, treatment and rehabilitation of

some chronic noncommunicable diseases such as diabetes, obesity,

dyslipidemia, osteoporosis, cancer and asthma.

Lines of Research:

Physical assessment

Aging

Physical Exercise and Metabolic Diseases

Physical Exercise and Osteomyoarticular Diseases

Lead Investigators: Denise Maria Martins Vancea

Contact: dvancea@ig.com.br

• Research and Extension Group on Care, Social Practices and Vulnerable

Populations' Right to Health (GRUPEV)

Group for the study of chronicity and vulnerability in health;

Care, social practices and health promotion in leprosy and other chronic

diseases as well as social participation and right to health.

Lines of Research:

Chronicity and Vulnerability in Health

Care, Social Practices and Health Promotion in Leprosy and Other Chronic

Diseases

Social Participation and the Right to Health

Lead Investigators: Danielle Christine Moura dos Santos

Raphaela Delmondes do Nascimento

Contact: danielle.moura@upe.br

• Study Group on Integrated Health Services Networks

GERISS is a group that has been researching aspects related to Integrated

Health Services Networks (RISS) in the Unified Health System (SUS) in recent

years, particularly with regard to access, coordination and continuity of

care- intermediate objectives- and to equity of access and efficiency- final

objectives. The research has evaluated the limits and possibilities in the in-

tegration of networks in Pernambuco and generated evidence that can fa-

cilitate the planning of SUS public managers in order to improve the perfor-

mance of networks as well as to increase the population's access to health

services.

Lines of Research:

Evaluation of Policies and Health Systems

Health Care Networks guided by Basic Attention

Lead Investigators: Maria Rejane Ferreira da Silva

Paulette Cavalcanti de Albuquerque

Contact: rejane.ferreira@upe.br

Women's Studies and Research Groups (GEPEM)

The Women's Studies and Research Group (GEPEM), created in 1994, is

made up of professors from the Nursing School (FENSG) at the University

of Pernambuco (UPE) who minister Obstetrical and Gynecological Nursing,

a professor from the Faculty of Medical Sciences (FCM) at UPE, and a pro-

fessor from the Department of Nursing at the Federal University of São

Paulo (UNIFESP). The research developed by the GEPEM-UPE has given

room for presentations in national and international events, publication in

indexed journals and in books. Some theses were also presented at events

in Brazil and abroad.

Lines of Research:

Fundamentals of Caring for Health

Promotion of Women's Health

Lead Investigators: Arabela Antônia Nery de Melo Costa

Contact: arabela costa@uol.com.br

Violence Studies and Research Group

The group of studies and research on violence is composed of faculty, lec-

turers and technicians of the health area. With a multidisciplinary and mul-

tiprofessional character, the researchers involved have been mainly dedi-

cated to the topics of domestic violence, school violence, support networks,

education and health promotion. The knowledge produced takes into ac-

count the diverse interfaces of violence in different age groups. Organized

in two lines of research, the group conducts epidemiological surveys, eval-

uation of actions and programs of attention to people and groups in situa-

tion of violence.

Lines of Research:

Promotion and Monitoring of Health

Violence and Health

Lead Investigators: Lygia Maria Pereira da Silva

Maria Aparecida Beserra

Contact: lygia.silva@upe.br

• Study and Research Group on Epistemology and Care

Fundamentals in Health and Nursing

This group seeks to conduct studies and research to know the fundamentals

of health care and nursing in its philosophical, historical, social and anthro-

pological aspects. It aims to understand the practices and knowledge in

training in the field of health and nursing and how they affect the promo-

tion and monitoring of health of the human population.

Lines of Research:

Fundamentals of Caring for Health and Nursing in Health Promotion

Professional Identity and History of Nursing

Policies and Process of Care in Adult, Elderly and Worker's Health

Safety and Health Promotion in the Various Ways of Caring

Lead Investigators: Fátima Maria da Silva Abrão

Contact: abraofatima@gmail.com

Study Group on Stomatherapy

The work developed by the group aims initially to know the epidemiological

panorama of the three areas - wounds, stomies and incontinences- that

compose stomatherapy, and then, intervene in a preventive, curative and

rehabilitation way to modify the scenario and promote a better quality of

life for the population involved.

Lines of Research:

Nursing Care for People with Impaired Skin Integrity

Stomatherapy Nursing

Lead Investigators: Isabel Cristina Ramos Vieira Santos

Marília Perrelli Valença

Contact: grupoestomaterapiaupe@gmail.com

Study and Research Group on Public Health (GEPSC)

Nursing Professionals have been involved in Teaching, Research and Exten-

sion activities and have been contributing to Research in the Public Health

Area. They seek not only to formulate norms, guidelines and critical posi-

tions of social movements and the real health needs of the community, but

also to follow-up and reformulate proposals for Health Programs and Poli-

cies that may contribute to the construction of new Health Models that

meet expectations and social demands for more and better quality of

health.

Lines of Research:

Epidemiology

Collective Health

Public health

Lead Investigators: Rute Cândida Pereira

Vera Rejane do Nascimento Gregório

Contact: rucape@hotlink.com.br

• Research Group on General Surgery and Liver Transplantation – FCM

Research group created under the Faculty of Medical Sciences with the aim

of supporting medical students interested in scientific initiation. We are not

connected to the stricto sensu Graduate Program. Our production focuses

on publications in periodicals indexed to PUBMED and directed to the edu-

cation and training of undergraduate students in Medicine.

Lines of Research:

General surgery

Medical Education

Liver transplant

Lead Investigators: Luiz Eduardo Correia Miranda

João Evangelista Neto

Contact: lecmiranda@gmail.com

ioaoevneto@hotmail.com

PROCAPE Research Group on Cardiovascular Diseases

The group is made up of professors and non-professors from the University

of Pernambuco, most of them with Masters or PhD degrees from various

specialties in the area of human health and conducts research in the field

of prevention, diagnosis and treatment of cardiovascular diseases. Their re-

search is closely linked to the Master's program in Health Sciences of the

Faculty of Medical Sciences of UPE and also to the scientific initiation pro-

grams of medical students. The group also participates in national institu-

tional projects such as the Prediction Study (DCIT - CNPq) and the Morpheus

Project (CNPq).

Lines of Research:

Heart Attack in Infectious Diseases

Cardiovascular Changes Related to the Aging Process

Evaluation of Cardiovascular Therapeutics (medicines, procedures or de-

vices)

Biomarkers Associated with Prognosis in Cardiology

Risk Factors and Prevention of Cardiovascular Diseases

Genetics and Cardiovascular Diseases

Research Group on Chagas Disease, Heart Failure and Cardiomyopathies

Sleep Medicine

Autonomic Heart Regulation

Lead Investigators: Dário Celestino Sobral Filho

Rodrigo Pinto Pedrosa

Contact: dsobral@uol.com.br

Research Group on Sports and Management (GEQUIP) – ESEF

Since 2013 this group has been participating in national and international

investigations. That same year we participated in the writing of the book

Municipal Sports Management in Ibero-America: History, Theory and Prac-

tice. In 2015, the group became responsible for the management of the In-

tercontinental Sports Management Association - AIGD. Systematically, the

group takes part in International and national Congresses in the area of

Sports and Management and produces and publishes scientific articles in

specialized magazines.

Lines of Research:

Performance Analysis

Cognition and Sports Action

Physiology Applied to Sports

Event Management and Sports Facilities

Management of Sports Organizations

Sports marketing

Teaching-Learning Methodology; Sports Tactical-Technical Training

Sports Manager Profile and Training

Public Sports and Leisure Policies

Lead Investigators: Carlos Augusto Mulatinho de Queiroz Pedroso

Vera Lucia Samico Rocha

Contact: carlosaugustomulatinho@gmail.com

• Research Group on Life Styles

This research group was initiated in January 2004 and, at present, the GPES supports the Master's Degree in Hebiatrics of the Faculty of Odontology at UPE and the Associate Postgraduate Program in Physical Education UPE / UFPB. The researchers of the GPES have been able to disseminate their main productions and to foment scientific training activities for the investigators and students involved. In addition, a closer exchange has been established with similar research groups, among which: Research Group on Physical Activity and Quality of Life (PUCPR), Research Group on Physical Activity and Health (UFSC) and Group of Study and Research in Metabolism, Nutrition and Exercise (UEL). GPES has also been active in establishing new research groups in several HEIs, and has maintained formal cooperation with research institutes abroad, among which: CIAFEL of the University of Porto (Portugal) and RICH of the University of Southern Odense (Denmark).

Lines of Research:

Epidemiology of Health Related Behaviors

Interventions of Physical Education in Health

Promoting Health and Healthy Lifestyles

Lead Investigators: Mauro Virgilio Gomes de Barros

Rafael Miranda Tassitano

Contact: contato@gpesupe.org

• Research Group on Humanization and Arts in Health

The present Research Group aims to study / research actions of humanization in the health area and the influence of art in the therapeutic process.

Lines of Research:

Humanization in Health

Tanatology

Lead Investigators: Tânia Maria Falcão Lake

Contact: tanialagofalcao@gmail.com

• Research Group on Public Health

The Collective Health Research Group aims to strengthen the institutional performance of the University of Pernambuco, Petrolina Campus in social

and economic development, professional-citizen training, and in the con-

struction and dissemination of knowledge through articulation between

teaching, research and extension. The Group will encourage and promote

the insertion and participation of professors and students in the commu-

nity, in the management and social participation in the Unified Health Sys-

tem in Petrolina and Macroregion. In addition, this group intends to inte-

grate professionals of the service network into the Health Bachelor Pro-

grams in this Campus and favor interdisciplinary and multicentric ap-

proaches.

Lines of Research

Education in Health and Teaching-Service-Community Integration

Health: Policies, Management and Evaluation

Promotion. Attention and Surveillance in Health

Lead Investigators: Marianne Louise Marinho Mendes

Flávia Emília Cavalcante Valença Fernandes

Contact: marianne.marinho@upe.br

Research Group on Health Informatics (GPIs)

The researchers in this group are professors and technicians from the Fac-

ulty of Nursing, Faculty of Medicine and the Health Secretariat of the State

of Pernambuco. The group initiated research in the area of Health Informat-

ics in order to introduce the subject into the training of students of the Nurs-

ing and Medicine Courses. In addition, the group also offers lines of re-

search where technology tools can be very supportive. Currently the group

incorporates undergraduate and graduate students in the development of

Research Projects.

Lines of Research:

Assistive Technology

Educational Technologies

Lead Investigators: Claudinalle Farias Queiroz de Souza

Mirian Domingos Cardoso

Contact: mirian.domingos@upe.br

• Research Group on Human Motor Behavior and Health

The Human Motor and Health Behavior Research Group aims to produce

and disseminate knowledge about how practice, information processing

and development process modify human motor behavior and how the lat-

ter associates with a healthy lifestyle. This research group is linked to the

Associate PostGraduate Program in Physical Education UPE / UFPB. Ra-

tionale: Fundamental for understanding and intervening in daily human mo-

tor practices which align with a healthy style of life is to describe order and

variation of changes in motor behaviour; study the effect of variables in mo-

tor learning, as well as propose explanatory models for such changes. This

research group incorporates undergraduate students, CNPq and FACEPE

scientific initiation fellows, masters and doctoral students. The Motor

Learning line of research develops studies on factors (eg. knowledge of re-

sults, instructions) that interfere with the acquisition of motor skills.

Lines of Research:

Motor Learning

Physical Activity, Health, and Psychomotor Performance in Childhood and

Adolescence

Biomechanics and Anthropometry

Cognition-action in Children Practicing Collective Sport Modalities

Motor Behavior in Elderly

Motor Skills and Physical Activity

Neuroscience and Sports

Lead Investigators: Maria Teresa Cattuzzo

Aldemir José Ferreira Teles

Contact: mtcattuzzo@hotmail.com

• Research Group on Human Performance - Petrolina Campus

This is a group composed of researchers with different backgrounds (phys-

ical education, physiotherapy, medicine, nutrition, nursing, psychology and

biology), originated in the research line "Nutritional, physiological, morpho-

logical and biochemical markers applied to human performance"

of the Research Group "Nutrition, Food and Health" in Petrolina Campus. In

these areas of knowledge, interdisciplinary research projects are developed

through epidemiological, clinical or experimental studies in the Human Per-

formance Research Laboratory. Our objective is to bring together the activ-

ities developed in different areas, producing science and knowledge to dis-

seminate in society through scientific articles published in indexed journals

and effective participation of researchers as speakers at national and inter-

national scientific events.

Lines of Research:

Determinants of Cognitive, Behavioral and Educational Performance at Dif-

ferent Levels of Education;

Physiological, Biochemical and Morphological Mechanisms Related to Hu-

man Performance;

Molecular and Functional Mechanisms Involved in Human Health Mainte-

nance.

Lead Investigators: Paulo Adriano Schwingel

Contact: paulo.schwingel@upe.br

Hebiatrics

The Hebiatrics research group is composed of professors and students

from several areas of health, such as dentistry, medicine, nursing, physical

education and physiotherapy so as to enable the development of multidis-

ciplinary work and the generation of knowledge that takes the determi-

nants of health in adolescence into account. The composition of the group

allows the development of research with an interdisciplinary and innovative

character. Organized in four lines of research, the group conducts studies on adolescents' health-related behavior, investigates mediators, determinants, biological and health risk factors in adolescence, in addition to conducting epidemiological surveys and evaluating adolescents health care programs.

Lines of Research:

Behaviors Related to Health in Adolescence;

Adolescent Health Care Policies and Programs;

Promotion, Protection and Recovery of Health in Adolescence.

Lead Investigators: Carolina da Franca Bandeira Ferreira Santos

Fabiana de Godoy Bene Bezerra

Contact: viviane.colares@upe.br

Bone Metabolism

This research group aims to assess risk factors associated with osteoporosis secondary to diabetes and insulin resistance; D Paget bone; Deficiency of Vitamin D and Primary Hyperparathyroidism.

Lines of Research:

Chronic Metabolic Diseases

Factors Associated with Sarcopenia, Fragility, Auditory Dysfunction and Vitamin D Deficiency in Elderly with Osteoporosis, Primary Hyperparathyroidism and Type 2 Diabetes.

Lead Investigators: Francisco Alfredo Bandeira and Farias

Contact: fbandeira@gmail.com

Nutrition, Food and Health - Petrolina Campus

The research group on Nutrition, Food and Health is made up of faculty

members of the University of Pernambuco Nutrition course (UPE) who work

in different areas, such as food, basic nutrition and dietetics, collective nu-

trition, public health, related pharmacology nutrition and health education.

Research projects are developed in the following areas: nutritional assess-

ment (either through epidemiological or clinical studies); food analyzes (

through bromatological and / or microbiological studies); health education

(through approaches developed in undergraduate and graduate studies).

The purpose of this research group is to bring together the activities devel-

oped in the different areas, producing science and knowledge to be dissem-

inated into society through scientific articles published in indexed journals

and effective participation either as lecturers or in the organization of sci-

entific events.

Research lines:

Science and Food Technology

Food and Nutritional Behavior and Dietary Study

Education and Health

Pharmacology, Health and Nutrition

Lead Investigators: Cristhiane Maria Bazílio de Omena

Iracema Hermes Pires de Mélo Montenegro

Contact: crisbomena@hotmail.com

Otorhinolaryngology - FCM

Having been created with the First Course of Specialization in

Otorhinolaryngology at the Faculty of Medical Sciences of Pernambuco

fourteen years ago, this group, targeted at training new professionals in this

specialty, invests not only in theory but also in the practice of medicine.

The association of teaching and research resulted in publications of articles

in scientific journals; participation in congresses; book chapters; promotion

of journeys, seminars, theoretical and practical courses on various subjects.

The idea of formalizing research activities provided members with a new

impulse to encourage undergraduate and graduate students to research

into the area of Otorhinolaryngology, with the aim of giving emphasis to

those aimed at our society own problems and whose results may turn into

the benefit of their members.

Research lines:

Laryngeal Conditions

Otoneurological Conditions

Rhinosinusal Conditions

Methodology of Medical Education

Lead Investigators: Luiz Alberto Alves Mota

Contact: luizmota10@gmail.com

Endemic and Chronic-Degenerative Pathologies in Brazil

This group aims at a) Promoting an extensive diagnosis of the

epidemiological, clinical, ergonomic, laboratorial, environmental, expert

and jurisprudential aspects of the Chronic-Degenerative and Endemic Pa-

thologies in Brazil in the loco-regional and national contexts, in order to dis-

seminate and share information with all those working in different areas

of Health; b) Evaluating the elements of Health Promotion in Nursing, Med-

icine and Dentistry; c) Deepening the dynamics of assessments in the field

of identification and mapping of biological and environmental risks

Lines of Research

Dental Cavity

Chronic-Degenerative Osteomuscular Diseases

Endemic Viruses Study

Study of Trauma

Hepatitis B: Prophylactic Attitudes of Nursing and Dentistry Students Facing

Occupational Contamination Risk.

Interface between SUS and the Endemic and Chronic-Degenerative Pathol-

ogies in Brazil

Biological Hazards

Lead Investigators: Marcus Vitor Diniz de Carvalho

Evelyne Pessoa Soriano

Contact: carvalho_marcus@yahoo.com.br

Practices and Technologies for Promoting Health Care Security

This group aims to develop studies and research aimed at current practices

and technologies that favor the maintenance of health and promote the

safety of health care.

Lines of Research:

Nursing and Safety in Health Care

Practices and Technologies for Health Promotion and Nursing Assistance

Surveillance in the Rational Use of Medications

Lead Investigators: Regina Célia de Oliveira

Contact: regina.oliveira@upe.br

• Health Policy, Planning, Management and Education (PRÁXIS)

Through research participation, seminars, publications of articles and ex-

changes with other research centers, with the support of local and state

governments, this group seeks to promote the importance of monitoring

and evaluating public health policies, and in particular, the new modalities

of public management in health introduced by the Administrative Reform

of the Brazilian State. In addition, it seeks to develop studies on health de-

cision-making within government institutions and collegiate arrangements,

which, by introducing the participation of different social actors, generate

conflicts of interest and problems of collective action. It presents as a third

line of research, health education and training as instruments and input for

health promotion policies, which in turn become a research subject for

the group.

Lines of Research:

Analysis of Health Education Policies and Work Policies in Public Health

Analysis of Training Policies, Education Policies and Health Promotion Poli-

cies

Monitoring and Evaluation of Health Management in Brazil

Decision Making in Health Policies

Lead Investigators: Joselma Cavalcanti Cordeiro

Cecile Soriano Rodrigues

Contact: cordeirojc@hotmail.com

Process of Caring for the Carrier of Acute and Chronic

Noncommunicable Diseases

The research developed by this group focuses on the discussion of human

development in the midst of socio-economic inequalities; in the midst of

the risk and occurrence of acute and chronic noncommunicable diseases;

and in the midst of onco-hematological diseases. This is the scenario where

the nursing care required for health promotion, prevention, and assistance

to the bearers needs to be considered.

Lines of Research:

Chronic Noncommunicable Diseases (CNCD) and their Risk Factors

Hematologic and Oncological Diseases

Lead Investigators: Maria das Neves Figueroa

Tânia Maria Rocha Guimarães

Contact: tmrguimaraes@gmail.com

Project for the Aging Population of Pernambuco (PROENP-PE)

The group in this Project for the Aging Population of Pernambuco (PROENP-

PE) is made up of researchers and students from the University of Pernam-

buco and the State Secretariat of Pernambuco working in the area of El-

derly Health. This group develops research in the State of Pernambuco in

the area of Epidemiology of Aging. The main PROENP-PE Project is a popu-

lation-based cohort study on aging with the objective to identify the soci-

oeconomic profile, health aspects, quality of life, functional capacity and

accessibility of the elderly population to health services in the state. This

project also seeks strategies to promote health for the elderly and to pro-

tect those who are vulnerable and at risk.

Lines of Research:

Attention to the Health of Vulnerable Groups (elderly, indigenous, quilom-

bolas)

Aging, Health and Work

Epidemiology of Aging

Palliative Care for the Elderly with Cancer and Dementia

Lead Investigators: Marília Siqueira Campos Almeida

Fabia Maria de Lima

Contact: fabia.lima@hotmail.com

• Women's Health

The Faculty of Medical Sciences of the University of Pernambuco was the pioneer in the implantation of the Stricto sensu Postgraduate Course in Toco Gynecology in the Northeast in 1993. Throughout the years, the program has always sought to meet the quality criteria of a Stricto sensu graduate program, in the sense of playing the role of a center for teacher training and high level researchers, a generator of expertise in the field of Toco gynecology. We have sought to solidify the research groups, which, although created together along with the Master's Program, were at first scattered, without structured lines of research. In fact, a consolidated line of research marks the advisor's scientific maturity. Over the years, at the expense of an exhaustive process of faculty awareness about the importance of consolidating research lines and the coherence between them and the projects designed, the research group has been maturing and the verticalization of research lines structured in a natural way reflects today the interests for a given topic and the professional maturity and scientific leadership of the researcher / advisor. Thus, the group of researchers, in addition to defining more vertical lines of research, chose a hierarchical organization, that is, students of scientific initiation and masters are permanently involved in the research projects that are developed around lines of research under the responsibility of a supervisor who plans and coordinates the progress and direction of the work. This hierarchical organization has

enabled an increase in scientific production, valuing and encouraging new

researchers.

Lines of Research:

Cost-Accuracy Assessment of Alternative Methods for Uterine Cancer

Screening;

Study of the Relationship between Hyperandrogenism and Hyperinsuline-

mia in Chronic Hyperovaginal Anovulation;

Study of the Epidemiological, Clinical and Biomolecular Aspects of HPV, HIV

and other STDs Infection;

Clinical, Metabolic and Therapeutic Interrelations of Bone Mineral Density

and Hormonal Status of Women;

Clinical, Endocrine and Metabolic Repercussions of Hypoestrogenism in the

Cardiovascular System;

Risks and Repercussions of Surgical Methods of Approaching Benign Hem-

orrhagic Disorders of the Uterus.

Lead Investigators: Hélio de Lima Ferreira Fernandes Costa

Laura Olinda Bregieiro Fernandes Costa

Contact: department mi@yahoo.com.br

Theories and Practices in Health, Illness and Cure

This is a pioneering group in health at UPE / Campus Petrolina, whose ob-

jective is a) to develop studies, research and extension activities related to

theoretical and methodological perspectives and conceptions in the field of

health, and b) to analyze actions, practices and behaviors related to forms

of knowledge about health, healing and disease. It focuses specificifically on

the constitution of differences, their hierarchies and collective interven-

tions in the social, cultural and educational fields.

Lines of Research:

Social Divisions, Subjectivity and Collective Action in Health - DIS. Saúde.

Education and Popular Inclusive Processes: Teaching and Learning, Health

Education.

Studies and Actions of Health Surveillance: Technologies, Innovations and

Interventions.

Lead Investigators: Maria Antoniêta Albuquerque de Souza Barroso

Maria Elda Alves de Lacerda Campos

Contact: antonieta.albuquerque@hotmail.com

• Fundamentals and Practices of Nursing in Cardiovascular Nursing

This group consists of nursing researchers, doctoral professors, masters,

nurses from public, private and university hospitals, undergraduate, special-

ization and undergraduate students, scientific initiation fellows. The group

is intended for all nurses who care for clients / patients in cardiology ser-

vices in various clinical and surgical situations and who are involved in in-

vestigating and discussing phenomena related to caring in cardiovascular

disease. This research group is part of the Thematic Line of the Associate

Graduate Program in Nursing UPE / UEPB.

Lines of Research:

Evaluation and Rehabilitation of Cardiopulmonary Dysfunction

Assisted / Nursing Care

Health Care and Nursing in Acute and Chronic Health Situations

Hospital Nursing

Fundamentals of Nursing Practice and Health Promotion

Lead Investigators: Simone Maria Muniz da Silva Bezerra

Contact: simone.muniz@upe.br

 Nursing Studies and Research Group on Health Promotion for **Vulnerable Populations (GEPEV)**

GEPEV was started in 2010. This group seeks to study and do research on nursing actions for health promotion, focusing on health care of the elderly, families and workers. Health surveillance and integral care that match the public policies are also under investigation.

Lines of Research:

Alcohol and Drug Research;

Nursing in Mental Health Promotion;

Clinical and Surgical Oncology;

Working Process in Nursing and Health / Worker's Health;

Promotion of health, Surveillance, Prevention of Diseases / Health Problems

and Nursing.

Lead Investigators: Jael Maria de Aguino

Carlos Alberto Domingues do Nascimento

Contact: jaelquino@ig.com.br

EXACT SCIENCES AND EARTH SCIENCES (11)

Software Engineering

This research group is interested in the study of programming languages

and software engineering, involving the development of new languages, im-

plementation and optimization of compilers for specific applications, com-

parative studies among languages, use of formal languages in the analysis

and verification of systems and the study and proposition of methods and

techniques that promote the development of reliable and low cost soft-

ware.

Lines of Research:

Development and Application of Programming Languages

Education & ICT

Requirements Engineering

Experimental Software Engineering

Project Management

Productivity in Software Development

Software quality

Information Systems

Verification, Validation and Testing

Lead Investigators: Maria Lencastre Pinheiro de Menezes Cruz

Contact: mlpm@ecomp.poli.br

Studies of UPE's Marine Biota

This research group has been attending a series of calls for environmental

studies in the coastal region of Suape, south coast of the State of Pernam-

buco, particularly in wildlife inventories and rescue programs. It has been

strengthened through the P & D Program of the National Agency of Electric

Energy – ANEEL.

Lines of Research:

Environmental Impacts

Coastal Area Monitoring

Systematics and Ecology of Recent Groups

Lead Investigators: Mucio Luiz Banja Fernandes

Andrea Karla Pereira da Silva

Contact: <u>muciobanja@gmail.com</u>

Mathematical Studies and their Trends

With the creation of this research group, interaction among faculty mem-

bers is expected to grow, which may strengthen the lines of research. It is

also believed that the research carried out by the group can offer alterna-

tive answers for the teaching and learning practices related to the area of

Mathematics.

Lines of Research:

Teacher Training in Mathematics

Analysis and Development of Teaching Materials for Teaching Mathematics

History of Mathematics

Polynomial Identity

Applied Math

Mathematical Modeling in Mathematics Education

Processes of Teaching-Learning of Mathematics in Basic Education and in

YAE.

Lead Investigators: Lucília Batista Dantas Pereira

Contact: lucilia.batista@upe.br

Photonics and Applied Electromagnetism

The research group in photonics and applied electromagnetism aims to pro-

vide solutions in several areas of engineering through the use of computa-

tional and experimental techniques. The group has contributed to the ar-

eas of photonics, electrical systems, electronics and applied electromag-

netism. The main topics under research are: optical spectroscopy of

nanostructured materials, diagnosis of combustion using lasers, optical sen-

sors, optical communications systems, optical networks, nonlinear optical

effects, surface plasmas and applications of electromagnetic fields in bio-

logical systems.

Lines of Research:

Applications of Solar Thermal and Photovoltaic Energy

Energy Efficiency

Biomedical Engineering

Optical Instrumentation

Experimental Investigation of Pre-Mixed Combustion

Optical Properties of Nanostructures.

Sensors

Control System

Smart Grids

Adaptive Optics

Lead Investigators: Luis Arturo Gómez Malagón

Contact: lagomezma@poli.br

• Research Group on Embedded Systems (GPSE)

The group focuses its research on the development of offshore platforms

based on various technologies. Currently the group develops research re-

lated to: instrumentation and sensing, aid to medical diagnosis, recycling of

digital waste, development of educational platforms, robotics of swarms

and networks of wireless sensors.

Lines of Research:

Automation and Control Systems

Computational Intelligence

Parallel Processing

Sensor Networks

Electronic Junk Reuse

Swarm Robotics

Reconfigurable Systems

Smart Grids

Lead Investigators: Sérgio Campello Oliveira

Contact: scampello@ecomp.poli.br

Socio-Environmental Study on Drainage Basins (HIDROCAMPUS)

The Hydrocampus was created to supply the low existence of researches in

exact sciences in Upe, specifically of Physical Geography. We participate in

the publication of local, regional, national and international scientific events

such as ENGs, CNEDUs and EGALs. As knowledge / products generated, we

offer model workshops, digital maps generated in Q-GIS, cultural carto-

graphic literacy workshops and several articles published in conferences

and FAFIRE magazine to the community. The group includes university pro-

fessors, technicians and students who are committed to the research lines.

In mapping, we have monitors and volunteers who give workshops in Q-GIS;

In river basins, we went to the springs, the encounter and the mouth of the

rivers of the Goiana Basin. In studies of fluvial hierarchy and pollution, we

have researchers who are in graduate courses, some are professors and

others have a master's degree. Lastly, Hidrocampus coordinates and main-

tains the UPE Cartography Laboratory.

Lead Investigators: Jorge José Araujo da Silva

Contact: jasil1@terra.com.br

Computational Intelligence (CIRG@UPE)

Research by the UPE's Computational Intelligence Group encompasses the-

oretical contributions in three main subareas: social and swarm intelli-

gence, evolutionary computation and neurocomputation. The main topics

studied are the development of new methodologies and intelligent tech-

niques, as well as their applications in several areas, namely: optimization

and search problems, decision support and modeling of complex real prob-

lems. The group currently investigates: (1) computational features of artifi-

cial neural and social networks, (2) development of new socio-inspired al-

gorithms such as FSS-Fish School Search, WPA-Wolf Pack approximation

and mEvoSys-MultiEvolutionary Systems, and (3) applications of such met-

aphors in complex systems, decision-making environments, agribusiness

(eg sugar-alcohol), shipbuilding, automotive, petroleum, and optical com-

munications networks.

Lines of Research:

Smart Applications in Optical Networks

Intelligent Applications in Health, Biotechnology and Agronomy

Intelligent Applications in Decision Support Systems

Smart Industry Applications

Automatic Code Generation

New Techniques of Cybernetics and Computational Semiotics

New Techniques in Social and Evolutionary Computing

New Swarm Intelligence Techniques

New Techniques in Neurocomputation

New Intelligent Algorithms for Parallel and Reconfigurable Hardware Plat-

forms

Logical Programming

Lead Investigators: Fernando Buarque de Lima Neto

Carmelo Jose Albanez Bastos Filho

Contact: fbln@ecomp.poli.br

Southern Agreste Center for Socio-Environmental Studies

The Center for Socio-Environmental Studies of the Southern Agreste of the

University of Pernambuco- Garanhuns Campus- researches topics related

to collective health and environmental sanitation in a semi-arid environ-

ment. Priority in the work group is research related to the municipalities

located in the southern hinterland of Pernambuco, which have, even for the

Brazilian Northeast, high rates of infant mortality among their common

characteristics.

Lines of Research:

Environmental Impact and Health Problems

Research on Competency Building in Professional Activity.

Environment and Urhanism

Environmental Monitoring and Modeling

Lead Investigators: Mauricio Costa Goldfarb

Contact: mcgoldfarb@yahoo.com.br

Landscape and Natural Heritage

Formerly called Working Group for Landscape Studies, the group has been

responsible for the training of human resources in the area of physical ge-

ography at undergraduate and postgraduate level. In addition, the group

has produced bibliography on the Brazilian semi-arid landscapes, also di-

vulging the cartography of landscapes and heritage education.

Lines of Research:

Socio-spatial Dynamics and Changes in the Urban Landscape

Environmental and Patrimonial Education

Geodiversity

Genesis and Structure of Landscapes

Environmental Changes

Lead Investigators: Luciana Freitas de Oliveira França

Natália Micheli Tavares do Nascimento Silva Mendes

Contact: lucianaagap@hotmail.com

• Pattern Recognition

The present group aims at the study and development of techniques and

algorithms for pattern recognition, image processing, machine learning and

virtual reality. The main lines of action are: Analysis and Segmentation of

Textures, Neural Networks, Document Processing, Medical Image Pro-

cessing, among others.

Lines of Research:

Machine Learning

Data Mining

Document Processing

Image processing

Virtual reality and multimedia

Pattern Recognition

Computer vision

Lead Investigators: Byron Leite Dantas Bezerra

Bruno José Torres Fernandes

Contact: byronleite@ecomp.pol

Humanities (22)

Application of Information and Communication Technologies to

Education (APLIC)

Group for Research on the Application and Use of Information and Commu-

nication Technologies - ICT in formal and non-formal education. The group's

vision is interdisciplinary, relating areas of knowledge, such as: Education,

Informatics and Computing. This educational research space with soft-

wares, hard-wares, media, hypertexts, distance education, robotics, games,

social networks and other emerging topics related to the information soci-

ety at present is the focus of scientific research in this research group. The

goal of APLIC is to educate the educational community, theorizing and train-

ing the participants for daily using information and communication technol-

ogies in the teaching-learning processes. Our aim is to efficiently subsidize

the technological initial training of teachers and students on research, con-

tributing to their critical, competent and active participation in the current

technological society.

Lines of Research:

Cultural Identity and Digital Inclusion

Innovative Methodologies with Online and Offline Technologies

Educational Multimedia

Policies of Technologies in Education and Health

Educational Robotics

Teachers' knowledge and Teaching and learning Information Technogy &

Computer Science

Lead Investigators: Sônia Regina Fortes da Silva

Contact: fortes.sonia@gmail.com

Anthropology, Religiosity, Gender, Interculturalism, Languages and Ed-

ucation (ARGILEA)

The creation of ARGILEA - Anthropology, Religiosity, Gender, Intercultural-

ity, Languages and Environmental Education-responds to the need to grasp

new ways of approaching social human phenomena as a key to the process

of accelerated mutations that have been crossing the socio-cultural fron-

tiers of contemporary society, taking fields of knowledge, forms of sociabil-

ity and distinct historical-cultural configurations. The research and discus-

sions developed in ARGILEA are centered on the theoretical approach that

contemplates the growing complexity of contemporary societies. The plurality of approaches as methodological strategy is one of the fundamental requirements of the multifaceted and interdisciplinary character that characterizes ARGILEA, in order to be able to reconcile the demands of knowledge that are housed in it. Although diversified when it comes to specific theoretical approaches, ARGILEA brings together some central hypotheses that constitute reference points of convergence with interfaces based on contemporary themes and objects, such as: a) being a privileged space for interdisciplinary reflections; b) deepening the reflection on contemporary sociocultural phenomena both theoretically and methodologically; c) creating opportunities for greater integration between researchers and undergraduate and postgraduate students of UPE / Campus Garanhuns, as well as with other national and foreign institutions.

Lines of Research:

Identity, Politics and Religiosity;

Anthropology, Religiosity, Social and Cultural Movements;

Archeology, Languages, Cultures, Politics and the Environment;

Culture, Health, Individual and Person;

Education, Languages, Communication, Gender and Generations;

Ethnicity, Memories and Identity Processes;

Philosophy, Education and Social Theory;

Social History of Labor, Social Theory and Peasantry;

Cultural Identities: Indigenous and Afro-Brazilian Cultural Preservation and

Transitoriness.

Lead Investigators: Adjair Alves

Jairo Nogueira Luna

Contact: adjairalves@gmail.com

Consciousness and Spirituality

We use the word Awakened Consciousness in the sense of Soul, indicating

the singular, collective and cosmic presence of the flow of life in the present

and whole Being beyond the focus of the Ego, a system that is drawn by the

external world. Therefore, transcendental consciousness is beyond all ex-

ternal field conditioning such as culture, nationality, heredity or any other

type of fantasy, in which the main filter is the perception and beliefs with

its tunnels of reality distorted by the process of identification. The idea of

transcendence resumes when the Soul realizes its fantasies about the real-

ity, being able to reach other degrees of Consciousness until the Ineffability.

Now, religiosity and its symbols are fertile ground for studies on the meta-

phors in which the fields of Consciousness point to the advancement of the

expansion of Consciousness, although religion itself also belongs to the ex-

ternal and illusory world, circumscribed by the fantasies and egoic identifi-

cations.

Lines of Research:

Awakened Consciousness and Spirituality

Noustherapy

Lead Investigators: Luciano da Fonseca Lins

Contact: llins25@msn.com

Development of Space, Territory and Region (GPDeTER)

GPDeTER aims to understand the processes of space change influenced by

interventions carried out by the population and the State. Thus, GPDeTER

analyzes the urban and regional dynamics that are a reflection of the (re-)

production of this space and, as a result, reveals new regional and territorial

configurations.

Lines of Research:

Education, Management and Spatial Planning

Logistics and Socioeconomic Development

New Urban Configurations and Quality of Life.

Lead Investigators: Gevson Silva Andrade

Ana Regina Marinho Dantas Barboza da Rocha Serafim

Contact: gevson@yahoo.com.br

Diversità

This Research Group is part of the activities of the Center of Diversity and

Social Identities of the University of Pernambuco and has an interdiscipli-

nary and interinstitutional proposal. It focuses on the diversity of Brazilian

society and the demands of the various social groups for policies and actions

that recognize this diversity and guarantee their differentiated rights. It

arises from the need to broaden the focus of the Research Group "Body,

Culture and Subjectivity". It is articulated with the NDIS Sexuality and Gen-

der Teacher Training Space and with social movements. The Group's efforts

are focused on teacher training in the area of sexuality and gender, diversity

policies, reflection and production of material on public policies and curric-

ulum.

Lines of Research:

Human Rights, Politics and Diversity

Sexual Diversity and Education

Old Age and Contemporaneity

Lead Investigators: Nadia Patrizia Novena

Contact: diversita.upe@gmail.com

GEFASSCE

GEFASSCE develops the research project "Holistic Sertão in Brazilian Litera-

ture", which aims to describe the images constructed about this space in

the literary discourse, from Romanticism to Postmodernism. It is hoped that

this study contributes to the contemporary debate on the multifaceted

characteristics of Sertão present in works such as Os Sertões, Grande

Sertão: Veredas, Morte e Vida Severina, Galileia, Essa Terra and Inspiração

Nordestina. From a social perspective, this study, which attempts to sum-

marize the various literary perspectives on Sertão, can help in the teaching

of literature in the schools of Basic Education.

Lines of Research:

Aspects of Semiotics, Semantics, Education and Culture in the Light of the

Assumptions of Discourse Analysis;

Northeastern Popular Culture and Imaginary-Discourse Representation of

Interlocutionists:

Genres and Popular Culture at School.

Lead Investigators: Genivaldo do Nascimento

Contact: gnascimento26@yahoo.com.br

Study Group on Sociocultural History of Latin America (GEHSCAL)

The GEHSCAL (Study Group of Latin American Sociocultural History) is an

inter-institutional and interdisciplinary research group whose main goal is

to investigate the formation of the Americas from two main chronological

cuts: colonization and the present time. When investigating colonization,

GEHSCAL employs culturalist approaches, dealing with relationships among

social groups, religiosities and sexualities, and political culture in the Iberian

Americas, paying particular attention to the collection, transcription, analy-

sis, and dissemination of colonial documentation. As regards the present-

time aspect, GEHSCAL appropriates a political and social bias to analyze and

think the global conjunctures from the beginning of the great wars to a

deeper debate on terrorism, economic crises, international conflicts, re-

gional integration, institutions and power, reaching its own historiography

on the concept of present time.

Lines of Research:

Culture, Gender, Ethnic-racial and Sex Diversities in Latin America;

Cultural History, Religions and Religiosities;

History of Present Time;

Political Power, Society and Culture in the Atlantic World.

Lead Investigators: Kalina Vanderlei Paiva da Silva

Karl Schurster Verissimo de Sousa Leao

Contact: gehscal@uol.com.br

Group of Systemic Studies of the Semiarid Region of Northeast

(GESSANE)

This group aims to produce, articulate and exchange knowledge that is em-

bedded in a systemic context, inside and outside the academic context, so

that the group's work somehow reaches out to society in general, with em-

phasis on the geographical scale of the Brazilian semiarid.

Lines of Research:

Environmental and Symbolic Cartography

Complexity and Systemic Approach in Geography

Eco Biogeography

Epistemology of Geography

Agrarian Geography with Emphasis on Agro Ecology and Small Rural Pro-

duction

Environmental Geography

Cultural Geography

Gender, Health and Education in Geography

Urban Environment

Geographic Information Systems and Remote Sensing

Lead Investigators: Maria Betânia Moreira Amador

Contact: betania.amador@upe.com.br

• Group of Studies and Research on School and Non-School Education in

the Sertão of Pernambuco (GEPESP)

Through ongoing transformations, we can identify a new teaching profile whose professional practice increasingly incorporates, besides the activities dedicated to teaching and academic management, the activities inherent to the development of the research. In this sense, the creation of the Group of Studies and Research on School and Non-School Education in the Sertão of Pernambuco (GEPESPE), constitutes a positive framework reinforcing the identity and the productions linked to the Bachelor's degree in Pedagogy of UPE. The researchers seek to contribute in the construction of a historical-educational knowledge about the Brazilian school, especially, the primary

school of Pernambuco; to help improve the quality of teaching, triggering

other ways of thinking about teachers' know-how; to stimulate the training

of teachers and researchers in the analysis and evaluation of educational

programs and projects, as well as of policies and institutional arrangements

at state level.

Lines of Research:

Teacher Training, Teaching, Pedagogical Praxis;

Politics, Society and Education.

Lead Investigators: Odair França de Carvalho

Maria do Socorro Carvalho Amariz Gomes

Contact: odair.carvalho@upe.br

Society and Nature Research Group of the São Francisco Valley

As a result of the creation of the Research Group on Society and Nature of

the São Francisco Valley, we expect: i) consolidation of a group of research-

ers in the Geography course with interlocution between research institu-

tions at regional, national and international levels; ii) training students with

research experience in the region of the São Francisco Valley; iii) Production

of books, scientific articles for magazines and annals of events; iv) subsidiz-

ing the proposal of teaching and extension projects through the develop-

ment of research projects.

Our aim is contribute to the training of professionals, as well as reach the

society outside the academic walls through research activities and univer-

sity extension.

Lines of Research:

Peasant agriculture, labor and social conflicts

Agribusiness and global production networks: city and countryside terac-

tions

Education, Teaching and Work Practice

State and Public Policies in the São Francisco Valley

Environmental Monitoring and Geotechnology

Conservation Units and Watersheds.

Lead Investigators: Raimunda Áurea Dias de Sousa

Antonio Marcos dos Santos

Contact: aureasouza@hotmail.com

Interdisciplinary Research Group on Teacher Training, Policy and Man-

agement

The Interdisciplinary Research Group on Teacher Training, Educational Pol-

icy and Management aims to carry out interdisciplinary investigations in the

field of teacher education and educational policies and management. The

investigations within this group are guided by the quantitative-qualitative

research approach, with emphasis on action-research. The research carried

out in the intricacies of this group intends to expand the field of teaching

knowledge based on experience and experimentation in the classroom, in

order to expand new possibilities of action in Primary and Higher Education,

as well as to raise the capacity of execution, evaluation and proposition of

educational policies through analyzes of programs, projects, and actions ex-

perienced within the scope of the schools.

Lines of Research:

Teacher Training

Educational Policy and Management

Lead Investigators: Maria de Fátima Gomes da Silva

Luiz Alberto Ribeiro Rodrigues

Contact: fatimamaria18@gmail.com

• Interdisciplinary Group of Social Representations and Training in Edu-

cation and Environment

The GIRSFEMA Group aims to consolidate studies and research in social rep-

resentations and training in education and / or environment. It adopts the

theoretical approach of the Moscovician social representations and also

Gaston Pineau's approach that links stories of life and formation (self-

study, socio-formation, ecoformation) with human training. He seeks dia-

logues with the social-genesis of social representations in the epistemology

of Wolfgang Wagner.

Lines of Research:

Territory Analysis, Education and Ecosocial Needs

Teaching - Learning in Education and Environment

History of Personal and / or Professional Life in Teaching

Social Representations and Training in Education and Environment

Lead Investigators: Vera Lúcia Chalegre de Freitas

Contact: vera.chalegre@upe.br

History and Memory

This group aims at investigating vestiges of the past such as traces, bibliog-

raphies, testimonies and documentary sources that make possible the un-

derstanding, of the individual or collective memory of social actors inserted

in temporal periods focused by several areas of specialization in historical

knowledge and related areas.

Lines of Research:

History, Powers and Cultures

Memories, Education and Representations

Lead Investigators: Joachin de Melo Azevedo Sobrinho Neto

Contact: joachin.azevedo@upe.br

Cultural identities: preservation and transience in Afro-Brazilian cul-

ture

Postmodern studies bring us the idea that cultural identities today are transient, that is, always in constant process of transformation. As is well known, despite the globalization process, the cultures still preserve in their interior, some peculiarities. These peculiarities continue to sign the distinction between peoples. To discuss the formation of Afro-Brazilian culture in this perspective is the objective of this research group. Over the years, the Group has been carrying out several projects: in 2008 it set up the Center for Studies on Africa and Brazil, a project that began in 2006. Since then, several events have been held: an Introduction to African Studies course for teachers of the public network in 2008, a forum on African cultures in 2009, several extension courses, the I International Congress of Studies on Africa and Brazil - CONEAB in 2015 and the request to initiate a Masters in African Cultures, the Diaspora, and Indigenous Peoples in 2015.

Lines of Research:

Application of Information and Communication

Technologies in Educatio Psychosocial aspects and psychic illness in indigenous and Afro- descendant populations

Cinema, Education and Cultural Diversity

Education, Pedagogical Practice and Ethnic-Racial Relations in Brazil

Ethnicity - identity processes

Social history, memory and culture

Language, art and symbolic systems

Literary and Cultural Relations between Brazil and Africa

Silent Voices: Concerns and Anxieties of Minorities in Brazilian

Literature

Lead Investigators: Silvia Nubia Chagas

Contact: snchagas@uol.com.br

Laboratory of Studies on Collective Action and Culture (LACC)

The LACC has been articulating students and researchers who show interest

in issues of social rights, collective identities, health and culture. From an

interdisciplinary perspective, it has strengthened the field of Social Sciences

at the University of Pernambuco, bringing together courses in History, Nurs-

ing, Physical Education, Social Sciences, Social Service and Law. With signif-

icant academic insertion, it has established important interlocutions with

research centers in Brazil (UFRN, UFPE, UFPB, UFAM, UEA, UNICAMP) and

abroad, such as the University of Milano-Biccoca and the University of An-

tioquia, Colombia.

Lines of Research:

Anthropology and Law

Social Cartography and Collective Identities

State, Public Policies and New Social Demands

Interculturality, Health and Education

Lead Investigators: Erisvelton Sávio Silva de Melo

Vânia Rocha Fialho de Paiva e Souza

Contact: saviocigzap@hotmail.com

Ancient History: Teaching and Extension Group (Leitorado Antiguo)

The Leitorado Antiguo - Teaching and Extension Group in Ancient History

(History Course of the University of Pernambuco / Campus Mata Norte), has

been registered in the Directory of Research Groups of Brazil (Plataforma

Lattes / CNPq) since 2006. Since then, it has been actively producing aca-

demic researches. The researchers of this group dedicate themselves to "in-

troducing the study of antiquity into Brazilian reality" (FUNARI, 2005, p. 97)

through new proposals for the teaching of Ancient History, relating antiq-

uity and the contemporary world.

Lines of Research:

The Epic Tradition in the Ancient Mediterranean: Relations between Per-

formativity Society and Writing

Medieval Historiography

Literature and Civilization

Chinese Wisdom Literature

Lead Investigators: José Maria Gomes de Souza Neto

Renan Marques Birro

Contact: zemariat@uol.com.br

Language, Cognition and Subjectivity

The Language, Cognition and Subjectivity research group aims to generate

theoretical and methodological constructs in what concerns the studies of

Psychology, Education and Technology. The work of this group is focused

on the dimension of language as a social development tool and its relation

to cognitive development and the impacts of these processes on human

subjectivity. It becomes, therefore, another academic-scientific area of

studies and research for undergraduate and postgraduate professors and

students of different fields of knowledge from scientific institutions and

higher education.

Lines of Research:

Cognitive Constructs of Mathematics

Education, Language and Cognition

Languages, Social Networks and New Digital Information and Communica-

tion Technologies

Psychomotricity and language development

Lead Investigators: Mirtes Ribeiro de Lira

Contact: mirtes.lira@upe.br

Center for Studies and Research in Youth and Adult Education

A research center that investigates issues related to politics and manage-

ment of education for young people (in the regular curriculum or not) and

adults, focusing on the teaching-learning process as well as the training of

teachers in this area. It discusses curriculum, classroom, evaluative pro-

cesses, teacher training and the production of didactic material involving

students and teachers from public schools and from classrooms of indige-

nous, quilombola and rural communities.

Lines of Research:

Mathematics Education

History and Education: Feminist Studies, Gender and Culture

Identity, Subject and Learning

Policies and Management in Education

Lead Investigators: Waldênia Leão de Carvalho

Frnani Martins dos Santos

Contact: nepeja upe@yahoo.com.br

The Place of Interdisciplinarity in Paulo Freire's Discourse

This research group is aimed at studying interdisciplinary perspectives in

Paulo Freire'a work. It seeks to foster reflections on the Freirean text that

enable dialogue and the partnership between educators and learners in the

pedagogical "what to do". The group also puts emphasis on Paulo Freire's

thinking in different perspectives of daily educational practice.

Lines of Research:

Education and Interdisciplinarity

Teacher training

Lead Investigators: Maria de Fátima Gomes da Silva

Gilvaneide Ferreira de Oliveira

Contact: fatimamaria18@gmail.com

Integrated Health and Multiprofessional Team

The proposal of this research group is to define the field of action in the

context of integral health, delineating step by step the work of the multi-

professional team. Health as a connection to the body, psyche and Nous is

reflected in the social and cultural environment of the community whether

it is academic or in general, in the way health is perceived and treated, its

imbalances and the way in which the subject gets sick in function of the

disconnection between body, soul and spirit, whose manifestation occurs

within the society. Disease can be perceived as an imbalance of human

structure, seen as a holographic paradigm; healing as the harmony of the

human hologram, manifested separately in the three dimensions of being.

The multi-professional team needs training in the context of the unity of

Being so that it can see the Other, namely, the user as a holonomic mani-

festation of the universe of which we are an integral part and that manifests

itself in participatory awareness networks.

Lines of Research:

Education, Health and Spirituality

Perception and Belief System in Hospital Clinical Treatment

Multidisciplinary Care Practices for Interiorization of Health Care

Health and Spirituality

Lead Investigators: Luciano da Fonseca Lins

Kátia Goretti Veloso Li

Contact: llins25@msn.com

APPLIED SOCIAL SCIENCES (05)

Law and the Conflicts Arising from Postmodernity

The postmodern society needs a re-reading of the classic legal institutes in

order to adapt to a globalized context marked by the strong value of infor-

mation. The importance of these studies is concretized in the propositions

to solve the conflicts originated from the crisis of modernity.

Lines of Research:

Study of Pedagogical Practices and Teacher Training in Legal Education

Contemporary Legal Studies

Lead Investigators: Oton de Albuquerque Vasconcelos Filho

Bruno Manoel Viana de Araujo

Contact: otonvasconcelosfilho@gmail.com

Sustainable Local Development Management

The importance of studies and research in the area of sustainable local de-

velopment management is reflected in all spheres of society, be it political,

economic, social or organizational. Research and studies contribute to the

development of the local population and to the social inclusion of the vari-

ous historically discriminated segments of society. This group develops mul-

tidisciplinary studies with the objective of offering the necessary subsidies

and knowledge for the implementation of public policies that generate sus-

tainable local development and encourage the social responsibility of or-

ganizations. It also develops studies aimed at training people with a focus

on sustainable local development, so that they become multiplying agents.

Lines of Research:

Environmental Aspects and Public Policies with Focus on Sustainable Local

Development (DLS)

Building People for Sustainable Local Development

Lead Investigators: Simone Ferreira Teixeira

Ivo Vasconcelos Pedrosa

Contact: ivo.pedrosa@upe.br

Study Group on Productive Infrastructure and Logistics for

Sustainable Local Development

This Study Group is aimed at the training of new managers / researchers in

local development management, logistics and infrastructure.

Lines of Research:

Public Policies, Logistics and Local Development

Lead Investigators: José Luiz Alves

Contact: luiz.alves@upe.br

Nucleus of Research in Economics of the Public Sector (NUPESP)

The group conducts research on various aspects of the public sector's per-

formance, both in the context of environmental policies and in public

spending and revenue aspects. Research on environmental policies at the

municipal level has been carried out by NUPESP since 2003, allowing the

production of synthetic indexes on environmental conditions and on the

use of the management tools used by the most populous municipalities of

the State of Pernambuco. The synthetic indexes are: the IPA - Index of An-

thropogenic Pressures and the IAPAM Index of Attenuation of Anthropic

Pressures by the Municipal Governments. The group's taxation contribu-

tions aim to increase the capacity to formulate fiscal policies adjusted to the

objectives of international harmonization, lower tax regressivity, lower re-

gional income disparities and greater competitiveness of national and local

production.

Lines of Research:

Environmental Aspects and Public Policies with Focus on Sustainable Local

Development (DLS)

Planning and IT / IT Management for Government Organizations

Environmental Policies of Municipal Governments

Public Policies and Urban Sustainability

Lead Investigators: Ivo Vasconcelos Pedrosa

Felipe Luiz Lima de Paulo

Contact: ivo@nupesp.org

NUPOP

The group NUPOP deals with the improvement of transfer processes, aim-

ing to disseminate information / knowledge in an equitable way so as to

reduce its asymmetric effects on the competitiveness of microenterprise

entrepreneurs as well as other segments of society (students, workers, re-

tirees). It also seeks to analyze the repercussions of this process on the re-

gional / local income gap.

Lines of Research:

Information Transfer Policies, Spatial Inequalities of Income and Sustainable

Development.

Lead Investigators: Adalberto do Rego Maciel Filho

Contact: admaciel@nlink.com.br

ENGINEERING (14)

Research Group of Applied Engineering to the Environment (AMBITEC)

The expectation of the group is that the research developed can serve as a

subsidy to urban planning, ensuring a better quality of life for citizens. There

is a consensus in society that not only identifying possible environmental

problems suffices, but also offering remedy and / or control.

Lines of Research:

Soil and Groundwater Contamination

Performance and Technological Innovation in Construction

Waste Management in Civil Construction

Soil Use and Occupancy Environmental Impacts

Mechanical Properties of Materials Under Pollution Action

Lead Investigators: Alexandre Duarte Gusmão

Stela Fucale

Contact: gusmao.alex@ig.com.br

Life Cycle Assessment of Civil Construction Products

The evaluation of the aspects related to the civil construction product (En-

gineering works: infrastructure works, residential, commercial and indus-

trial buildings) and the environment stands out as the way for the insertion

of the civil construction sector in the principles of sustainable development.

Thus, whether through construction materials and / or processes, life cycle

assessment is the most appropriate tool to evaluate qualitatively and quan-

titatively the environmental aspects of the product or process. The results

are new paradigms that define sustainable construction as that which

shows a balanced relationship between the consumption of raw materials

and energy. This evaluation must start from the exploitation of the raw ma-

terials, go through other phases of the product or process - transportation,

processing, use and maintenance, until reaching the end of its useful life -

that is, from the cradle to the grave, when necessarily it will have to be re-

integrated into nature. Thus, the sector plays an important role in the path

of sustainable construction, because in addition to contributing to the qual-

ity of life of society, it also has a strong concern with environmental issues.

Lines of Research:

Life Cycle Assessment

Environmental Management

Construction Materials and Components

Lead Investigators: Arnaldo Cardim de Carvalho Filho

Fátima Maria Miranda Brayner

Contact: cardim@poli.br

Coordination of Environmental Studies

In these new times, mankind organizes itself for the great challenge of man-

aging non-renewable resources that will become increasingly scarce in the

face of their increasing demand. More than the management of non-renewable resources per se, the need and the need to do so within the framework of sustainable development substantially increases this responsibility. However, one cannot forget that, directly or indirectly, in a specifically technical or more generic way, man is the ultimate object of science and, therefore, so is his relationship with the environment. Thus, in some way, several areas of science address the socio-environmental issue and this points to a satisfactory management of the social-environmental issue. Environmental quality, environmental risks and CSR - Corporate Social Responsibility are one of the most important concerns of modern society, including the corporate sector. The motivating factors for this prioritization are the potential impact of technological development and lifestyle changes as well as increased awareness of health and safety hazards. In this context, this research group proposes to generate and multiply knowledge in the area of Environmental Management, studying and proposing improvements in environmental risk management methodologies and developing mathematical models and environmental indicators for the constant improvement of the environmental performance of the SGA - Environmental Management Systems. In addition, we intend to work on issues related to Sustainability indicators, including the ISE - BOVESPA Corporate Sustainability Index and the Dow Jones Sustainability Index. These actions also have positive impacts on the financial health of companies.

Lines of Research:

Socio-environmental Sustainability Evaluation for an Electric Sector Com-

pany

Training of Sustainability Engineers

Environmental Quality Management

Responsible Social and Environmental Management: New Paradigm of Sus-

tainability in the Brazilian Electricity Sector

Mathematical Models and Statistical Indices in Environmental Stems

Radiation of Electromagnetic Waves of Cellular Telephony

Environmental Risks

Lead Investigators: Francisco José Costa Araújo

Contact: paco51@uol.com.br

Secure Development and Sustainable Development (DESS)

The aim of this group is to develop studies taking the holistic aspects of

sustainability as applied to the areas of transport and civil construction into

account, emphasizing not only aspects of the environmental dimension, but

also of the social and economic dimensions and safety as a transversal ele-

ment of the three dimensions. The research lines were created to meet a

regional demand aligned with the research lines of the Master in Civil Engi-

neering of UPE (PEC). It is believed that new research beginning to be de-

veloped in this area can contribute to the growth and maturation of this

program and expand the exchange networks that have been established in

recent years with the several renowned foreign universities (eg Technion

and CSU). It is hoped that the work of this group encourages and promotes

a safe and sustainable regional development while alerting the main actors

to the safety issues and solutions applied to the sector.

Lines of Research:

Water Conservation in Buildings

Inclusive Education and Diversity

Safe and Sustainable Mobility

Sustainability Applied To Buildings

Lead Investigators: Emilia Rahnemay Kohlman Rabbani

Contact: emilia.rabbani@upe.br

Ergonomics, Hygiene and Safety at Work

The research group Ergonomics, Hygiene and Occupational Safety, repre-

sented by the Nucleus of Occupational Health and Safety, is coordinated by

Professor Béda Barkokébas Junior and vice-coordinated by Professor Bianca

Vasconcelos and occupies the physical space of the Labor Safety and Hy-

giene Laboratory of the University of Pernambuco - LSHT / UPE. Currently,

they have undergraduate, specialization, masters and doctoral students in

their team, as well as faculty and professors. The lines of research are asso-

ciated to research projects and publications linked to the Post-Graduate

Program in Civil Engineering. Through technical and scientific research, the

NSHT has worked with the private and public sectors, with national and in-

ternational partnerships. With an investment of more than R\$ 2,000,000.00

(two million), the LSHT has a total physical area of 95 m², which incorporates

an amphitheater for 50 people, a computerized work area, a library, and

measuring equipment.

Lines of Research:

Integral Accessibility

Ergonomics

Occupational Safety and Health Management - GSST

Occupational Hygiene - HO

Prevention thought Design - PtD

Flectrical Risks

Work Safety in Construction - STCC

Integral Security (home, leisure, transit, and so on)

Lead Investigators: Béda Barkokébas Junior

Bianca Maria Vasconcelos Valério

Contact: beda.jr@upe.br

Applied Physics and Computational Mathematics (FAMAC)

The group conducts research activities in the areas of climate and water

resources, soil physics, environmental modeling and monitoring and also in

development of new engineering materials with a view to the development

of sensors. Students participate in applied research projects in the areas of

energy, environment, soil and water.

Lines of Research:

Statistical Analysis and Modeling

Structural and Morphological Analysis of Materials

Instrumentation Applied to the Study of the Environment

Applied Numerical and Computational Methods

Lead Investigators: Irami Buarque do Amazonas

Damocles Aurelio Nascimento da Silva Alves

Contact: irami.amazonas@upe.br

Industrial Maintenance Study Group

This group aims at conducting technical and scientific work in the life cycle

of mechanical equipment involving tribology, fracture mechanics and RISK

- Risk Based Inspection. The research will be carried out in the Thematic

Network GRIPFG - RISK MANAGEMENT IN INDUSTRIAL ENGINFERING OF

THE P & G SECTOR, structured in CEERMA (Center for Studies and Testing in

Risk and Environmental Modeling), which is a multidisciplinary research and

development center of the Federal University of Pernambuco (UFPE) sup-

ported by professionals from the departments of Production Engineering,,

Oceanography, Mechanical Engineering, Statistics, Civil Engineering, Well

Engineering, Environment, and from other Higher Education and research

institutions such as UPE and the Technological Institute of Pernambuco

(ITEP-OS). CEERMA has the knowledge and experience of PhDs linked to

UFPE that assist in the coordination and execution of research projects and

in the training of Doctoral and Master's students and Cientific Iniciation

students.

Lines of Research:

Industrial Automation

Risk Based Inspection

Industrial Maintenence

Robotics

Tribology and Management

Lead Investigators: Francisco Ilo Bezerra Cardoso

Luís Antônio de Andrade Ferreira

Contact: cpg@poli.br

The Renewable Energy Research Group (GPER)

The Renewable Energy Group includes the areas of engineering which re-

late renewable energy to chemical processes for the production of hydro-

gen (H2), CO2 removal by adsorption (PSA technique). Currently the devel-

oped works have focused on the following topics: Modeling Comparative

mathematics of the adsorptive storage of natural gas, biogas and hydrogen,

Thermodynamic study of hydrogen adsorption storage process.

Lines of Research:

Application of Nanotechnology to Three-Phase Low-iteration reactors

Biofuel

Renewable Energies (Solar Energy)

Alternative Energy Sources

Mathematical Modeling and Computational Simulation of Processes for Bi-

omass Energy Utilization (Gasification Process)

Mathematical Modeling, Computational Simulation and Optimization of Tar

Reform in Biphasic and Three-Phase Fixed Bed Chemical Reactors

Mathematical Modeling, Computational Simulation and Optimization of

Pollutant Gases Resulting from the Combustion and Gasification Processes

in Fluidized Bed and Fixed Bed Gasifiers

Mathematical Modeling, Computational Simulation and Optimization of the

Drying Processes, Pyrolysis, Combustion and Gasification Processes in Flu-

idized Bed and Fixed Bed Gasifiers

Oil and Gas

Lead Investigators: Jornandes Dias da Silva

Contact: jornandesdias@poli.br

Network Protocol Research Group (GPPR)

The group meets systematically on Monday afternoons to discuss general

and specific aspects and concepts in computer networks, wireless net-

works, and protocols.

Lines of Research:

Internet of Things - IoT

Computer Network Protocols

Wireless Networks

Simulators

Software Defined Networking

Lead Investigators: Edison de Queiroz Albuquerque

Carmelo José Albanez Bastos Filho

Contact: edison@ecomp.poli.br

Network and Communications Research Group (GPRC)

The results of this group's research cover theoretical and practical contributions in the area of networks and communications. Main topics researched are: Ad Hoc Networks, Information Theory, Optical Networks, Digital Signal Processing and Computational Intelligence Applications in Networks and Communications. The group has collaborated with several network and telecommunications companies, such as Alcatel-Lucent, Ericsson, PADTEC,

FITec, etc.

Lines of Research:

Optical Amplifiers

Multiple Access Channels Using Turbo Codes

Error Correction and Digital Transmission Codes

Internet of Things and Network Protocols

Digital Information Processing and Transmission

Complex Networks

Wireless Networks and Ad Hoc Networks

Optical Networks

Information Theory

Lead Investigators: Carmelo Jose Albanez Bastos Filho

Francisco Madeiro Bernardino Junior

Contact: carmelofilho@poli.br

• Public Policies for Accessibility, Inclusion and Assistive Technologies

1. To develop a network of support and guidance for the care of families with children with hearing impairment in the state of Pernambuco and across Brazil;

2. To understand the reality of family care and visual -gestural needs inherent to the newborn with a diagnosis of deafness from the following specific objectives;

3. Identify in the Family Health Units families with children who failed the Hearing Test while screening, and with children who failed Bera Test and were definitively diagnosed or suspected of hearing impairment;

4. To adapt the production and supply of educational material in different medias;

5. To develop studies and provide bilingual informational and educational

material in the area of deafness and deaf /blindness.

Lines of Research:

Development of Assistive and Inclusive Educational and Communication

Strategies

Accessibility Studies with Production of Assistive Technology Innovations

Inclusive Vocational Training and Education for the Deaf

GEBESS - Bilingual Study Groups on Deaf Education and Deafblind Educa-

tion

Identification and Registration of Libras Signals in Different Areas of

Knowledge

Playfulness, Educational Technologies and the Production of Educational

Materials in Libras

Public Inclusion and Accessibility Policies

Lead Investigators: Luiz Albérico Barbosa Falcão

João Marcelo Xavier Natario Teixeira

Contact: prof.luizalberico@gmail.com

Biotechnological Processes and Products

The Group of Processes and Biotechnological Products of UPE seeks to

bring together different lines of research ranging from the study of ferment-

ative process dynamics in bioreactors aimed at the production of products

of industrial interest until the application of mycorrhizae in the production of phytochemicals of pharmacological interest passing through studies of genomics and plant proteomics. As repercussions of the group deserve to be highlighted: - Development of a process for 1,3-propanediol production in bioreactors from residual glycerol from the production of biodiesel; - Development of a process for the production and purification of alkaline protease for the detergent industry; - Pretreatment and enzymatic hydrolysis of sugarcane bagasse for the production of bioethanol; - Improvement of sugarcane making it suitable for the production of bioethanol; - Increased production of phenolic compounds with pharmacological application stimulated by the action of mycorrhizae.

Lines of Research:

Development of nanostructured polysaccharide-based systems for controlled drug release

 $\label{lem:microbiology} \mbox{ Microbiology of fermentation for the production of alcohol and } \\$

sugar cane liquor

Molecular nanoscience

Production of 1,3-propanediol from Glycerol

Production of Biofuels

Enzymes production and purification

Production, purification and application of Levan

Plant differential proteomics in response to stress factors

Mycorrhizal technology

Lead Investigators: Irapuan Oliveira Pinheiro

Fábio Sérgio Barbosa da Silva

Contact: <u>irapuan.pinheiro@upe.br</u>

• Welding Maintenance and Automation Welding

This group aims at the accomplishment of technical-scientific work in processes and automation in welding.

Lines of Research:

Research lines:

Automation

Inspection and END

Modeling and Simulation of Mechanical Systems

Welding

Welding Maintenance

Lead Investigators: Francisco Ilo Bezerra Cardoso

Francisco Arnaldo de Oliveira Rufino

Contact: ilo@poli.br

• Building Construction Technology and Management (POLITECH)

The research group POLITECH - Building Construction Technology and Man-

agement is made up of professionals and professors who interact with each

other in order to foster the broad knowledge domain on construction man-

agement and technological development, committed to the construction

performance. The rational use of environmental resources and the well-be-

ing of society.

Lines of Research:

Technological Development of Construction

Construction Management

Pathology and Durability of Buildings

Lead Investigators: Alberto Casado Lordsleem Júnior

Eliana Cristina Barreto Monteiro

Contact: acasado@poli.br

LINGUISTICS, LITERATURE AND ARTS (03)

Center for Linguistic and Literary Studies of UPE (CELLUPE)

In 2006, CELLUPE was created to support undergraduate students in litera-

ture who sought academic support for the development of their individual

projects and to expand, guide, manage, organize and systematize studies

and research that cover linguistics and literature and their relation to lan-

guage teaching - both the mother tongue and the foreign language. As of

2007, the group started to act more strongly as a teacher-training resource; to this end, it promoted monthly meetings open with seminars, workshops and mini-courses focused on teaching, research and extension for undergraduate students, FFPNM former students and school teachers. Currently, CELLUPE includes projects related to three laboratories: LINUS - Language Lab (gem) in use in social contexts (laboratory articulated with the international project SAL - Systemic Across Languages under the coordination of PUCSP and Polytechnic University of Hong Kong); LEL-Laboratory of Literary Studies; LED - Teaching Laboratory, both articulated with NELUPE - UPE's Education and Language Center and PROFLETRAS - Professional Master of Arts. CELLUPE has also been a space for discussion of Final Course Assignments (TCC) and contemplates three lines of research: Language, Education and Technology; Language, Literature and Culture; and Language (gem) in Use and Society.

Lines of Research:

Reading and Textual Production: Social Diversity and Teaching

Practices

Language, Education and Technology

Language, Literature and Culture

Literature and Teaching

Language in Use and Society

Theories of Language and Teaching

Lead Investigators: Maria do Rosário da Silva Albuquerque Barbosa

Amara Cristina de Barros e Silva Botelho

Contact: mariadorosariobarbosa@yahoo.com.br

Discursive Practices, Social Interaction and Teaching (DISCENS)

This group brings together researches on discursive practices seen from a

social interactional perspective whether applying or not to teaching. Most

of the research developed by the DISCENS Group adopts the sciences of

language, especially Linguistics, as a reference to dialogue with the areas of

Literature, Social Sciences and Humanities in various approaches. The

Group is thus marked by conducting highly interdisciplinary or transdiscipli-

nary research. The intention is to gather a wide range of research interests

that covers, among other possible topics genres ("textual" or "discursive"),

linguistic variation, teaching and new information and communication tech-

nologies, considered in written and oral modalities. It also covers the study

of possible connections between discursive practices and group behavior.

Lines of Research:

Education and Language

Teaching Portuguese Language, its Literatures and the New Technologies

Textual Genres and Discursive Practices

Discursive Practices and Human Behavior

Sociolinguistics and Variation

Lead Investigators:

Contact: benedito.bezerra@upe.br

Research Group on Comparative Studies between Literature and In-

terdisciplinarity (GRUPEC)

The group's objectives are: to problematize Portuguese-language litera-

tures (Brazilian, Portuguese, Galician, Indigenous and African literatures);

to work on literature based on notions of interculturality, identity, human

rights and gender; to discuss the interdisciplinary relationship between lit-

erature, history, geography (environment), education and other related ar-

eas; to reflect on human rights, history, memory, heritage (material and im-

material), displacements and identity issues. The idea is also to encourage

the production of texts aimed at literary criticism and contribute to the un-

derstanding of the problem of teaching /learning literature from a compar-

ative perspective.

Lines of Research:

Research Group Intercultural Perception and Representation - Pri / UFPE

II Journey of Literary Criticism: Ecocriticism: Studies on the Nature of the

Group of Studies in Contemporary Brazilian Literature

Institute of Latin American Studies

Professional Master's in Literature - Profletras

Indigenous Cultures Documentation Project - Indian Museum-FUNAI

Lead Investigators:

Maria das Graças Ferreira Graúna

Magdalena Maria de Almeida

Contact: g.grauna@upe.br

TECHNOLOGICAL INNOVATION AND TECHNOLOGICAL

QUALIFICATION

In 2015, PROPEGE became PROPEGI - Pro-Rectory for Graduate Pro-

grams, Research and Innovation- so that the new strategic vision of the Uni-

versity of Pernambuco would be reflected in its name. The generation of

innovative ideas, processes and products, as well as the development of

modern concepts of technological innovation among its staff, researchers,

faculty and students became an aim.

One of the actions of the Innovation axis aims to restructure and

streamline the Technological Innovation Center – NIT - with the purpose of

providing guidelines for protection of inventions generated within UPE as

well as assist in the transfer process of this knowledge and products to the

productive sector.

UPE is also on the verge of creating the Institute for Technological

Innovation (IIT), which is to be based on Pargtel (Electrical - Electronic Park

and Related Technologies of Pernambuco State Government). The IIT aims at creating laboratories for development of innovative products and processes via association of UPE with Institutes of Science and Technology and/or Companies. It also aims at fostering new ideas that might result in patents.

LATO SENSU COURSES

BENFICA CAMPUS

PERNAMBUCO BUSINESS ADMINISTRATION SCHOOL (FCAP)

SPECIALIZATION COURSES

- Financial Management
- Management of Human Capacity in Organizations
- Organizational Planning and Management
- Business Mangement
- MBA in Marketing
- MBA in People Management
- MBA in Cost Management and Control
- MBA in Cost Management and Control II
- MBA in Healthcare Services and Hospital Management
- MBA in Business Logistics

- MBA in Organizational Planning and Management
- MBA in Public Prosecutor's Office Management
- Public Planning and Management

BENFICA CAMPUS

ENGINEERING SCHOOL (POLI)

SPECIALIZATION COURSES

- Technology and Construction Management of Buildings
- Quality and Productivity Management
- Safety at Work Engineering
- Embedded Systems
- Software Engineering
- Construction and Assembly Work in Engineering
- Welding Engineering
- Renewable Energy
- Inspection, Manegement and Recovery of Structures

CAMARAGIBE CAMPUS

PERNAMBUCO DENTAL SCHOOL (FOP)

SPECIALIZATION COURSES

- Surgery and Oral & Maxillofacial Trauma
- Dentistry

Dental Implant

RESIDENCY

- Surgery and Oral & Maxillofacial Trauma (HUOC)
- Surgery and Oral & Maxillofacial Trauma (HR)
- Surgery and Oral & Maxillofacial Trauma(HGV)
- Surgery and Oral & Maxillofacial Trauma(HRA)

GARANHUNS CAMPUS

SPECIALIZATION COURSES

- Teaching of Portuguese Language and its Literatures
- Psychopedagogy
- Public Health
- School Supervision and Educational Management
- Mental Health and Psychosocial Intervention
- Biology Teaching

MATA NORTE CAMPUS

- SPECIALIZATION COURSES
- Applied Linguistics to Portuguese Language Teaching
- General Microbiology
- Psychopedagogy

PETROLINA CAMPUS

SPECIALIZATION COURSES

- Psychopedagogy
- Geography Teaching
- History of Brazil Culture and Power
- Portuguese Language: A Didactic Perspective
- UPE Intensive Physiotherapy

SANTO AMARO CAMPUS

HIGHER EDUCATION SCHOOL OF PHYSICAL EDUCATION (ESEF)

SPECIALIZATION COURSES

- Cardiopulmonary and Metabolic Rehabilitation
- Physical Activity and Public Health
- Strength Training for Health
- Physical Education at School
- Evaluation of Human Performance
- Sports Training

SANTO AMARO CAMPUS

MEDICAL SCHOOL (FCM)

SPECIALIZATION COURSES

- Cardiac Arrhythmias
- Cardiology
- Gastroenterology
- Geriatrics
- Hemodynamics and Interventional Cardiology

RESIDENCY PROGRAMS

- Anesthesiology
- Neurology
- Dermatology
- Clinical Medicine
- Thoracic Surgery
- Clinical Oncology
- Surgical Oncology
- General Surgery
- Laparoscopy
- Infectious Diseases
- Gastroenterology
- Geriatrics
- Family and Community Medicine
- Pediatric Neurology

- Pediatrics
- Urology
- Mastology
- Obstetrics and Gynecology
- Cardiovascular Surgery
- Invasive Electrophysiology
- Hemodynamics
- Cardiology
- Echocardiography
- Multi-professional Residency in Collective Health
- Integrated Multi-professional Residency in Family Health
- Multi-professional Residency in Mental Health

SANTO AMARO CAMPUS

NOSSA SENHORA DAS GRAÇAS NURSING SCHOOL (FENSG)

SPECIALIZATION COURSES

- Nursing Nephrology
- Women's Health
- Public Health Management of Systems and Health Actions
- Nursing at Advanced Life Support: Emergency and ICU

RESIDENCY PROGRAMS

- Psychiatric Nursing
- Nursing in Prehospital Care
- Nursing in Cardiology at Agamenon Magalhães Hospital
- Infectious Diseases Nursing
- Nursing in Oncology
- Women's Health at Amaury de Medeiros Integrated Health Center (CISAM)
- Women's Health at Agamenon Magalhães Hospital
- Restoration Hospital Surgical Center (RH)
- Nursing in Specialized Cardiocare at the University of Pernambuco Cardiologic Emergency Hospital - (PROCAPE)
- Restoration Hospital General Emergency (RH)
- Neurology / Neurosurgery at Restoration Hospital (HR)
- Intensive Care Unit at Restoration Hospital (RH)
- Cardiac Nursing at the University of Pernambuco Cardiologic Emergency Hospital - (PROCAPE)
- Nursing in Hematology and Hemotherapy at HEMOPE Foundation Hospital

SANTO AMARO CAMPUS

BIOLOGICAL SCIENCES INSTITUTE (ICB)

SPECIALIZATION COURSES

- Molecular Biology
- Clinical Microbiology
- Expertise, Audit and Environmental Management

- Health of the Elderly
- Biology Education (EAD)
- Hematology
- Clinical Pathology

RESIDENCY PROGRAMS

- Psychology: Mental Health
- Clinical Nutrition at the University of Pernambuco Cardiologic Emergency Hospital - (PROCAPE)
- Clinical Nutrition at Oswaldo Cruz University Hospital HUOC
- Urgent Care, Emergency and Trauma at Getulio Vargas Hospital HGV
- HEMOPE Foundation Pharmacy
- Restoration Hospital Pharmacy

STRICTO SENSU PROGRAMS

- Master and Ph.D. in Cell Biology
- Master and Ph.D. in Health Sciences
- Ph.D. in Biotechnology (RENORBIO)
- Master and Ph.D. in Nursing
- Master and Ph.D. in Dentistry
- Master and Ph.D. in Physical Education

- Professional Master in Surveillance and Health
- Master in Forensic Skills
 Professional Master in Psychology Practices and Innovation in Mental
 Health
- Master in Hebiatrics
- Professional Master in Education
- Master in Language Studies
- Professional Master of Arts PROFLETRAS
- Faculty Graduation Program and Interdisciplinary Practices
- Master in Civil Engineering
- Master in Computer Engineering
- Master in Systems Engineering
- Master in Management of Sustainable Local Development
- Master in PowerTechnology

PROGRAMS

ACADEMIC ENHANCEMENT PROGRAM (PFA)

The Academic Enhancement Program (PFA) was created in 2009 with the goal of raising the quality level of academic activities in teaching, research and extension in UPE. Initially, over R\$ 1.2 million was invested.

Today, that number rose to nearly R\$ 2.7 million, resulting in an increase of 125%.

For the first time, UPE was able to design an Academic Enhancement Program based on transparency and selection through public notices. The program's main pillars are designed to support students, faculty, research, and extension activities.

Institutional Scientific Initiation Scholarship Program (PIBIC)

The Institutional Scientific Initiation Scholarship Program (PIBIC) aims to support the Scientific Initiation policy developed in the Institutions of Education and / or Research through the granting of Scientific Initiation Scholarships (IC) to undergraduate students. The subsidy (IC) is directly bestowed to the institutions responsible for selecting research projects submitted by faculty members interested in participating in the program. Students become fellows from the statement of the faculty research advisors.

The PIBIC - AF program is a partnership between Affirmative Action Policies of the Special Secretariat for the Promotion of Racial Equality of the Presidency (SUBPAA / SEPPIR-PR) and the National Council of Scientific and Technological Development of the Ministry of Science and Technology (CNPq / MCT) whose aim is to broaden the opportunity for technical and

scientific training of higher education students who have entered the university through affirmative action policy. They contribute to making UPE a Centre of Excellence in the production of scientific knowledge.

INSTITUTIONAL SCHOLARSHIP PROGRAM TO FACULTY TRAINING (PIBID)

The PIBID is an initiative for the improvement and enhancement of the Faculty Training Course for basic education. The program provides grants to undergraduate teacher training course students who participate in Initiation to Faculty Training Projects developed by higher education institutions (IES) in partnership with elementary public schools. Projects should promote the integration of these undergraduate students in the context of public schools from the beginning of their academic training so that they develop didactic and educational activities under the guidance of a faculty member and a school teacher.

SCIENCE WITHOUT BORDERS (CSF)

Science without Borders is a Brazilian Government scholarship program that seeks to promote the consolidation, expansion and internationalization of science and technology through exchange and international mobility programs, as well as innovation and Brazilian competitiveness. The initiative is the result of joint efforts of the Ministries of Science, Technology and Innovation (MCTI) and the Ministry of Education (MEC), through their

respective funding agencies - CNPq and Capes - and the Higher Education and Technological Education Departments of MEC.

CONTINUING EDUCATION PROGRAM OF SCHOOL MANAGERS IN PERNAMBUCO (PROGEPE)

The Continuing Education Program of School Managers in Pernambuco has three phases: Professional Improvement, Specialization and Masters.

Computer and Languages Program (PROLINFO)

PROLINFO - as part of the University of Pernambuco (UPE) extension program - was established in 2002 in order to offer language (English, Spanish and Portuguese) and computing courses not only to the academic community of UPE, but also to society as a whole. The program also contributes to the teacher training program of undergraduate students. Students of Literature and Informatics, closely guided by a team of coordinators, act as teachers for the courses.

National Basic Education Teacher Training Plan (PARFOR)

The PARFOR on-site program, implemented by CAPES, is aimed at collaborating with the State, Federal District and Municipal Education Departments as well as with Higher Education Institutions (HEIs) to strengthen

the demand for free higher education by teachers working at public basic education as required by the National Education Bases and Guidelines Law.

COIMBRA GROUP OF BRAZILIAN UNIVERSITIES (GCUB)

The Coimbra Group of Brazilian Universities (GCUB) was formally established as an association of university leaders in 2008. The GCUB consists of national federal, state, religious and community universities who recognize the Coimbra institution as alma mater. Its mission is to promote inter-agency and international integration through faculty and student mobility programs.

Confucius Institute

The Confucius Institute is a nonprofit educational institute. It aims to support and promote the teaching of the Chinese language and culture, as well as enhance bilateral understanding and friendship among peoples; strengthen cooperation and exchange in educational and cultural area; develop friendly relations between China and foreign countries and stimulate multi-polarization and multiculturalism in order to build a more harmonious world.

The Confucius Institute comes to Recife as a result of an agreement between UPE and the Headquarters of Confucius Institute (Hanban), in partnership with the Central University of Finance and Economics in Beijing. It aims to teach the Chinese language, train Chinese language teachers, provide books and teaching materials, conduct the HSK examination and certification, provide consultation service on Chinese education and culture, organize Chinese festive and cultural activities and perform linguistic and cultural exchange between China and Brazil. The Confucius Institute at UPE, first in Northeast Brazil, is a key platform for the teaching of Chinese language and culture in this region.

University of Pernambuco - UPE

President: Pedro Henrique de Barros Falcão

Vice-President: Maria do Socorro de Mendonça Cavalcanti

Vice-President for Administration and Finance: Rivaldo Mendes de Albu-

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Vice-President for Undergraduate Education: Luiz Alberto Ribeiro Rodri-

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Vice-President for Graduate Studies and Research: Maria Tereza Cartaxo

Muniz

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Vice-President for Personnel Mangement: Vera Gregório

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Dean: Vera Lúcia Samico Rocha

Business Administration School (FCAP)

Dean: Marcos Aurélio de Souza Meira

School of Medical Sciences (FCM)

Dean: Dione Tavares Maciel

Nossa Senhora Das Graças Nursing School (FENSG)

Dean: Viviane Tannuri F. Lima Falcão

UPE Garanhuns Campus

Dean: Prof. Clóvis Gomes da Silva Jr.

UPE Mata Norte Campus - UPE Mata Sul Campus

Dean: Maria Auxiliadora Leal Campos

UPE Petrolina Campus

Dean: Moisés Almeida

Dental School (FOP)

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Oswaldo Cruz University Hospital (HUOC)

Director: Izabel Christina de Avelar Silva

Amaury de Medeiros Integrated Health Center - CISAM

Director: Olímpio Barbosa de Moraes Filho

Pernambuco University Cardiologic Emergency Hospital - PROCAPE

Director: Sérgio Tavares Montenegro

Nucleus of Distance Education (NEAD): Renato Medeiros de Moraes

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vice-President i	for Graduate :	Studies. Kesearch.	and innovation

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