Federal University of Pernambuco

Center for Arts and Communication

Postgraduate Program in Information Science

Research Projects

N.	Scope and definition of projects
1	**Research Project**: Information Science Research Groups in Brazil: Mapping from the CNPQ Research Group Directory in the Years 2007 - 2016. **Coordinator**: Professora Anna Elizabeth Galvão Coutinho Correia **Contact:** anna.correia@ufpe.br **Description:** Definitions concerning the Information Science area, regarding Research Groups, defining profiles, identifying, selecting and pointing out procedures, methodologies and research areas with the greatest potential for generating new knowledge which will provide primary data to entities / agencies specialized in production, analysis and formulation of metric indicators and information visualization devices in in science, technology, and innovation. **Validity**: 2017 – 2022
2	**Research Project**: Information, Policy and Power in the area of Public Security **Coordinator:** Professora Edilene Maria da Silva **Contact:** edilene.msilva@ufpe.br **Description:** The investigation analyzes the availability of data and information available on the Internet of the public security policy of the state of Pernambuco Pacto pela Vida (PPV) to verify if they meet the criteria of openness and reuse. The management of data and information carried out by state agencies subsidizes the process of monitoring and evaluation through performance and results indicators and decision making at the strategic level of the government, which allows for periodic adjustments to this policy in order to meet the annual goal 12% reduction in lethal violent crimes. In recent years, research, social and press institutions have been demanding access to PPV data to verify the progress of the policy and also propose new actions, a right guaranteed by the Federal Constitution. Methodologically the research uses the evaluation of open government data to identify the data sets that meet the criteria of openness and reuse. The first results point to the need for the elaboration of the PPV Open Data Plan, but it is expected, with the advance of the study, to contribute with the proposition of methodologies, strategies and technologies that promote the opening of the data, considering all the complexity involved, in this process so urgent to meet the informational

	needs of public managers for the effective provision of services and the promotion of accountability and the exercise of citizenship and democracy. **Validity:** 2018 – 2022
3	**Research Project:** Identification and classification of border concepts: challenges for knowledge representation **Coordinator:** Professor Fabio Assis Pinho **Contact:** fabio.assis@ufpe.br **Description:** This project has as its theme the organization and representation of knowledge and, more specifically, the ethical issues surrounding this theme. Thus, through an exploratory and documentary research, it is defined a terminological study to understand the classification of terms considered borderline in relation to gender, using the domain of homosexuality. The main expected results may be related to terminological studies to understand specific domains. **Validity:** 2018 - 2022
4	**Research Project:** Study of the scientific production of Brazilian researchers in the fields of Humanity based on bibliometric analyzes of articles, books and projects (2016 to 2017). **Coordinator:** Professor Fábio Mascarenhas e Silva **Contact:** fabio.mascarenhas@ufpe.br **Description:** It seeks to develop methodologies for the analysis of scientific production in humanities area in Brazil, for this purpose a database of scientific production in the area of humanities in Brazil will be established (2006 to 2017). Then, the most appropriate bibliometric tools will be identified to deal with the technical and bibliographic production of the humanities area. Next, indicators will be produced both for the set and for each area of the humanities, based on data extracted from the Lattes Platform. Finally, methodologies will be proposed that envision the particularities of the scientific production of the humanities area. **Validity:** 2019 - 2022
5	**Research Project:** Bakhtinian Language Studies Applied in Information Science **Coordinator**: Professor Hélio Márcio Pajeú **Contact:** hélio.pajeu@ufpe.br **Description**: The project aims to understand the epistemological aspects that architect the social paradigm of Information Science establishing relations with the philosophy of language developed by the Circle of Bakhtin, discussing it as a science that has alterity and dialogism as an epistemic foundation, in which the theoretical assumptions of Bakhtinian Studies can collaborate to broaden the concepts and actions of collecting, treating, organizing, disseminating and using information. **Validity:** 2020 - 2022

6	**Research Project:** Seminal theoretical frameworks in the practice of information science research in Brazil **Coordinator:** Professor Leilah Santiago Bufrem **Contact:** santiagobufrem@gmail.com **Description:** Study on seminal theoretical frameworks in information science research, based on the analysis of the practice of Brazilian researchers awarded CNPq research productivity grants, effective from 2017. It aims to analyze and describe how the theoretical influences on their production based on the references they cite. It identifies and analyzes the researchers' production published in scientific journals indexed in the Lattes Platform and in the Referential Base of Journal Articles in Information Science (Brapci), to identify their seminal theoretical frameworks in the field of Information Science (CI) in Brazil. It seeks to highlight, based on a mapping of this production and its theoretical foundations identified in referenced citations, the main influences on these PQ researchers. **Validity:** 2017 – up to the present time.
7	**Research Project**: Fundamentals of Information Science: overview of the scientific models of the Graduate Program in Information Science at UFPE (PPGCI) **Coordinator:** Professor Majory Karoline Fernandes de Oliveira Miranda **Contact:** majory.oliv@ufpe.br **Description:** The fundamentals of Information Science (IS) are by nature a broad area of research, involving from history studies, and empirical record management practices, prior to professional training, to traditional backgrounds, such as Library and Documentation, and by consequence scientific thinking. The combination of these biases corroborates the construction of the IS's episteme, and consequently the theoretical currents direct studies and themes over the last three decades in IS. The fortuitous definitions of the research object Information are commonly discussed and questioned, and their connection with the document, memory, communication, and culture, making up the dynamics of the specific understanding of each subarea, and its subsequent practice. The objective of the present investigation is to present an overview of the scientific and technological information that is presented in the PPGCI based on the fundamentals of IS. To this end, we seek to identify the models of thoughts on the understanding of Information that contribute greatly to the construction of the program's dissertations between the years 2010-2020; map the fundamentals of IS, the disciplinary relations; and the identification of the definitions of the information object, as well as identifying its relation with memory, culture, communication and documentation, finally representing on conceptual maps the intersections and points of disciplinary convergence observed in this context. The research is based on the model of post-custodialism with research methodology that follows the four proposed research poles: Epistemological, theoretical, technical and morphological. In the technical area, the use of data and content analysis techniques stands out. As a result, an overview of the construction of SI in PPGCI is sought; the disciplinary connections of IS; mapping the use of information definitions and the consequent creation of concept maps. **Validity:** 2020 - 2022
8	**Research Project**: Memory of the promotion of science in Pernambuco **Coordinator:** Professor Marcos Galindo

	Contact: galyndo@gmail.com **Description:** The teaching, research and innovation organizations responsible for scientific production and regional social development make up a system of relevance notoriety, however its rhizome, functionality, depth and social reach have not yet been satisfactorily explained. All the quantitative and/or qualitative data that express in historical series the evolution of the promotion of science and technology in Pernambuco, and the little data obtained does not yet allow a quality dive into the evolution of its memory. In this sense, the project "Panorama of the memory of the promotion of science in Pernambuco" intends to contribute to the expansion of available knowledge on the promotion of science and technology in the State, highlighting the importance of the institutional and scientific memory of Pernambuco. **Validity:** 2021 – up to the present time.
9	**Research Project**: Homosexualities in the collections of the Library System of the Federal University of Pernambuco: chronological bibliography and thematic analysis **Coordinator**: Professor Murilo Artur Araújo da Silveira **Contact:** muriloas@ufpe.br **Description:** Research with the bibliographic records available in the units of the System that include gender studies in the scope of homosexuality. The initial understanding of the phenomenon of homosexuality follows the proposition of Trevisan (2000), from the conceptual demarcations, their manifestations, distinctions and approaches, to the social, political, economic and cultural aspects, from the perspective of bibliographic and documentary studies. **Validity:** 2019 -2022
10	**Research Project**: INCLUSIVE INNOVATION: designing information resources in the informal tapioca trade. **Coordinator:** Professor Nadi Helena Presser **Contact:** nadihelena@uol.com.br; nadi.helena@ufpe.br **Description:** In general, the researchers refer to inclusive innovation aimed at people with potential for innovation, but who do not have access to economic, social welfare benefits and do not have access to the formal labor market. Thus, this research improves the capacities of inclusive innovation in people who work in the informational trade of production and sale of tapioca through the access and use of information resources, observing the principles of inclusion. Specifically, it identifies the information resources adopted by people who work in the informal trade of production and sale of tapioca, typical food of regional and local cuisine in the Northeast Region. This study is potentially significant, as it points to the need to enhance the practice of searching, disseminating, and using information in the informal work environment of producing and selling tapiocas. It aims to propose improvements related to quality and informational coverage for the creation and development of inclusive technological and innovative solutions. **Validity:** 2018 – 2024

11	**Research Project Name**: Disinformation and misinformation: challenges for information management **Coordinator**: Professor Nadi Helena Presser **Contact:** nadihelena@uol.com.br **;** nadi.helena@ufpe.br **Description:** More and better information is often seen as a condition for better management practices, decisions, among other reasons. Although simple, these premises are problematic. One reason for this is that although the Internet has several communication mechanisms, many of them share false, inaccurate, manipulated and misleading information (SOE, 2017). This research addresses the phenomena of misinformation, disinformation (including the circulation of fake news) and post-truth, which reign in contemporary digital networks and information systems. Stresses critical competence in information as a resource to resist misinformation y the post-truth and to promote a citizen who is able to critically select information that are important to them and to others. The objective is to investigate the impact of misinformation on society and organizations and the contributions of critical informational competence to combat false information to help users to navigate on digital media environment. **Validity**: 2021 - 2024
12	**Research Project**: OtletCI: Thematic Observatory and Laboratory - Teaching, Technology, Science and Information **Coordinator:** Professor Raimundo Nonato Macedo dos Santos **Contact:** raimundo.macedo@ufpe.br **Description**: The project that deals with the implementation, operation and maintenance of the OtletCI Observatory in the context of the institutional project ¨Coordination of Articulation and Promotion of Strategic Partnerships, at the Federal University of Pernambuco. Its main objective is to develop, through the incorporation and operation of a high-performance information structure, prospective studies, services and information products on demand in areas of emerging or promising research sectors. It is based on existing models of science and technology observatories in light of the importance of products and other results for the formulation and maintenance of government programs and policies. It presents the infrastructure present at the OtletCI Observatory with regard to existing human and material resources, the installed physical and operational structure and, also, to the capacity of technical-scientific formation established in the Federal University of Pernambuco. From a methodological point of view, the proposal is supported by advanced metric studies through bibliographic and documentary techniques for the collection, organization, validation and visualization of data and information for the formulation of indicators. The main expected results are: a) development and improvement of methodologies and instruments for the production of diagnoses, prospective studies on the relationships between science, technology and society; and b) training and qualification of human resources for research and prospection studies, formulation and elaboration of problems and sources of information about existing realities. **Members:** Raimundo Nonato Macedo dos Santos (Responsible); Anna Elizabeth Galvão Coutinho Correia; Natanael Vitor Sobral; Nancy Sanchez Tarragó; Murilo Artur Araújo da Silveira; Fábio Mascarenhas e Silva; Elias Sanz Casado; Alejandro Caballero Rivera; Daniel Presser; Bruno Tenório Ávila; Rúbia Wanessa dos Reis Cruz; Tatyane Lucia Cruz **Funder:** National Council for Scientific and Technological Development-CNPq; Universal Notice

	2018
	Validity: 2018 - 2022
	Research Project: Institutionalization of the OtletCI observatory - technical-scientific memories in (re) construction.
	Coordinator: Professor Raimundo Nonato Macedo dos Santos **Contact:** raimundo.macedo@ufpe.br
	For about 10 years, professors accredited by the Graduate Program in Information Science (PPGCI) at the Federal University of Pernambuco (UFPE) have been using research and infrastructure efforts to establish an observatory for science, technology and innovation, a system modern and updated high performance information. Its function is to support processes of policy formulation, definition of strategies and operation of knowledge production activities in science and technology, that is, of Research and Development in an articulated way, within the federal institutions of higher education (IFES), and, at the same time, constitute spaces for the training of professionals with competence for prospecting, mediation and provision of infrastructure to support these processes. In view of the successful results of this undertaking, the present project proposal has the general objective of constructing a retrospective narrative, in the form of an Instructional Guide, of the set of research activities required for operational conception and the setting up of an observatory that builds time series (first order), and with additional competence to carry out prospective studies. As it is an emerging scientific structure, the process of reconstructing the trajectory of research activity requires seeking consolidated and consecrated methodological theoretical alternatives. To this end, Whitley's (1974) works are useful theoretical references and approved by the scientific community to address the institutionalization of a scientific activity. From a methodological point of view, this study is located between the routine practice of the researcher and academic research, as to the ends and means, constitutes a descriptive, diagnostic and documentary research. Among the expected results, we highlight the production of a reference work, in the format of an Instructional Guide, of the documentary collection related to the operational conception and the start of the OtletCI observatory.
	Funder: National Council for Scientific and Technological Development-CNPq. Call for proposals CNPq PQ Nº 09/2020
	Validity: 2021 - 2025
13	**Research Project**: Automatic indexing based on the extraction of noun phrases from scientific publications in the Information Science area
	Coordinator: Professor Renato Fernandes Correa **Contact:** renato.correa@ufpe.br
	Description: It proposes an automatic indexing method based on the extraction of noun phrases and the attribution of controlled vocabulary terms for the effective representation of the subjects dealt with in the digital scientific publications in the area of Information Science written in Brazilian Portuguese.
	Validity: 2016- up to the present time.

14	**Research Project:** Models, Standards and Technologies for Digital Curation: Theoretical and Practical Aspects
	Coordinator: Professor Sandra Albuquerque Siebra **Contact:** sandra.siebra@ufpe.br
	Description: This research has as general objective to develop theoretical and practical studies on models, standards and technologies for digital curation, in order to guarantee long-term access, use and reuse of digital objects. This also ends up involving managerial, political, ethical, organizational and legal issues related to digital curation and its practice. This research is relevant due to the exponential growth in the amount of data, documents and information in digital media that are subject to technological obsolescence, the fragility of digital media and the lack of accessibility and / or the possibility of long-term use and reuse. At the same time that the Information Science area still lacks more concrete models for the application of Digital Curation in practice, as well as qualified human resources to work with the processes involved in it, in order to guarantee authentic, complete, reliable, understandable and easily accessible digital objects, now and in the future. It is expected as a scientific contribution to advance the theoretical studies on digital curation and to propose the details of processes and activities for the implementation of digital curation. As a social contribution, promote the development of practical digital curation projects in institutions, companies and organizations, in order to contribute to the access, use and long-term reuse of data, documents and collections relevant to society, in addition to promoting the training of human resources to act in curation.
	Validity: 2020 - 2023