

RESEARCH OPPORTUNITIES - VIRTUAL MOBILITY

PUCRS / 2021

	Research Group or Laboratory Project	Coordinator	Eligibility Criteria	Activities to be developed (subject to alteration)	Duration
1	Medical Image Computing Laboratory (MEDICOM) Project: Artificial intelligence methods applied to the analysis of medical imaging	Ana Maria Marques da Silva	Proficiency in English and familiarity with Python and / or MATLAB programming	Development of software for medical imaging processing and analysis	Minimum of 6 months, no maximum duration
2	Research Group in Olympic Studies Project 1: E-Sports in Olympic Games: A Perspective Based on Athletes and Specialists in Olympic Games	Nelson Schneider Todt	Intermediate or Advanced Spanish, French or English Availability in the afternoons	Bibliographic research and review, collaboration in conducting interviews and data management	9 months
3	Research Group in Olympic Studies Project 2: Social Media and the Creation of the Image of Paralympic Athletes: From Rio 2016 to Tokyo 2020	Nelson Schneider Todt	Intermediate or Advanced Spanish, French or English Availability in the afternoons	Bibliographic research and review, collaboration in conducting interviews and data management	9 months
4	Research Group for Education, Gender and Craftwork Project: Exploration of women's work in pandemic times	Edla Eggert	Intermediate-level Portuguese or Spanish – Availability on Thursdays from 7 PM to 8:30 PM	Reading and discussion of articles sent through Whatsapp	04 months or an academic semester



5	<p>LTIG - Image Treatment and Geoprocessing Laboratory</p> <p>Project: Extreme events - floodings</p>	<p>Regis Alexandre Lahm</p>	<p>English or Spanish; Familiarity with geotechnologies and geoprocessing</p>	<p>Spatialization of rainfall data and flooding points in Porto Alegre - Technologies</p>	<p>Minimum 1 semester; Maximum 2 semesters</p>
6	<p>d-GOVS - Governance and Digital Society Research Group</p> <p>Project: Digital Exclusion in Digital Transformation Processes</p>	<p>Edimara Mezzomo Luciano</p>	<p>Intermediate English</p>	<p>Bibliographic review and research; support in the design of research instruments, preliminary data analysis</p>	<p>1 academic semester (a minimum of 4 months)</p>
7	<p>GEE (Energy Efficiency Group)</p> <p>Project: Sustainable Planning of Energy Resources</p>	<p>Odilon Francisco Pavón Duarte</p>	<p>Proactivity and engagement</p>	<p>Successful applicants will analyze and monitor data; conduct bibliographic review and research; assist in the analysis of technical reports; provide support in the development of training programs.</p>	<p>To be defined</p>
8	<p>Embedded System Group</p> <p>Project: Internet of Things - Industry 4.0 and Smart Cities</p>	<p>Fabiano Hessel</p>	<p>English or French; C and Java programming languages.</p>	<p>The student will work at the core of IoT technology. The activities involve the study of the IoT state of the art, Edge Computing, Cybersecurity Methods for IoT devices (use of machine learning techniques, blockchain, cryptography)</p>	<p>A minimum of 6 months</p>

9	<p>Virtual Human Simulation Laboratory</p> <p>3 projects. Simulation of behaviors / Analysis of movements and facial expressions / Study of human perception regarding the visualization of virtual humans.</p>	Soraia R. Musse	Intermediate English, familiarity with programming language, especially Unity and Python.	Unity, Python and image analysis libraries.	A minimum of 3 months (not including the month of December)
10	<p>Laboratory for Evaluation and Research in Physical Activity</p> <p>Project: Biological Aspects of Aging</p>	Rafael Reimann Baptista	English or intermediate Portuguese.	Bibliographic review and research, scientific meeting, production of scientific articles.	To be defined
11	<p>Integrative Research Group on Epidemiology Research, Technology and Teaching</p> <p>Project: Epidemiology</p>	Rita Mattiello	No specific requirements	Literature review, project design and development, data analysis and production of scientific papers	TBD
12	<p>GERMA – Rural Economy and Environment Group</p> <p>Project: The Paris Agreement and the Brazilian Agribusiness</p>	Augusto Mussi Alvim	English or Portuguese	Bibliographic research and review, participation in seminars, data management, participation in class and meetings in research groups.	Minimum: 3 weeks; Maximum: 2 semesters
13	<p>GENIM - Group for Research on Epidemiology, Neurology and Immunology</p> <p>Project: Sociodemographic, behavioral, clinical and molecular markers for the identification of elderly individuals with risk of serious Covid-19 infections</p>	Douglas Kazutoshi Sato	Elementary-level Portuguese; Availability of 20 hours per week (face-to-face); Interest in ageing, neurology and immunology.	Monitoring research activities in the Institute of Geriatrics and Gerontology's research laboratory and in Brains' Laboratory of Neuroinflammation and Neuroimmunology: hands-on activities in the laboratory (face-to-face); application of instruments;	A minimum of a month and maximum of three months



				<p>data collection; scientific discussion; database design; data analysis; attendance to classes, seminars or scientific meetings. Some activities may be developed remotely.</p>	
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