

CURRICULUM VITAE

Date: September, 2023

PERSONAL DETAILS

Name: Ileana Montoya Perez
Date of Birth: 28.12.1975
Address: Kultasirkunkatu 7, 21500 Piikkiö, Finland
Phone No: +358 45 202 0602
E-mail: iimope@utu.fi
ORCID: 0000-0002-9744-9204
Nationality: Colombian

WORK EXPERIENCE

- March 2021 - Present Project Researcher
Member of the PRIVASA team researching the technical aspect of privacy preservation of artificial intelligence (AI) for synthetic and anonymous data.
Employer: University of Turku, Dept. of Computing
- January 2020 – February 2021 Researcher
Data management and data analysis. Applying machine learning techniques to build predictive models that help in diagnostic of prostate and bladder cancer.
Employer: Turku University Hospital (TYKS), Dept. of Radiology, Dept. of Urology
- January 2018 – December 2019 Doctoral Funded Position
Researching, testing, and developing methods and techniques for analyzing challenging data sets.
Employer: University of Turku (UTU), Dept. of Future Technologies, and UTU Graduate School (MATTI programme scholarship)
- January 2017 - December 2017 Researcher and Data Analyst
Researching and applying machine learning methods to accurately build and evaluate predictive models for prostate and bladder cancer diagnosis and prognosis using clinical and medical image data sets.
Employer: Turku University Foundation Grant (8 months)
Turku University Hospital (TYKS), Dept. of Urology (3 months)
- January 2015 - December 2016 Data Analyst and System Developer
Research project on clinical and magnetic resonance (MR) images data from prostate cancer patients. Designing, implementing and administrating data systems for collecting data for prostate cancer and bladder cancer studies.
Employer: Turku University Hospital (TYKS), Dept. of Radiology, Dept. of Urology
- June 2014 – December 2014 Web and Database Developer
Designing and building a web application to collect retrospective data of bladder cancer patients from different Finnish hospitals.
Employer: University of Turku, Dept. of Future Technologies, and Dept. of Urology (TYKS)
- August 2002 – March 2009 Secondary ICT Coordinator
Teaching ICT to middle and high school students.
Performing administrative tasks related to ICT.
Employer: British International School, Barranquilla, Colombia
- March 2001 - February 2002 Trainee – Software Developer
Participating on the development of a Customer Service Automation System.
Employer: TJ Group Oyj. Helsinki, Finland
- January 2000 - February 2001 Software Developer
Developing and deployment of an auditing and control computer application.
Employer: Monómeros Colombo Venezolano, Dept. of IT, Colombia

EDUCATION

November 2014 - Present	<p>PhD Candidate Major studies in machine learning, data science, and artificial intelligence. Research director: Jukka Heikkonen Principal supervisor: Tapio Pahikkala Other Supervisors: Peter Boström and Ivan Jambor Institution: University of Turku, Finland</p>
2010 - 2014	<p>MSc in Information Technology Major studies in Computer Science. Thesis topic: Linked Data and Web APIs "Mechanisms for sharing data on the web: Web API vs. Linked Data" Institution: University of Turku, Finland</p>
1995 - 2000	<p>Systems Engineer Diploma Major studies in Software development. Institution: Universidad del Norte, Barranquilla, Colombia</p>

ACHIEVEMENTS AND AWARDS

January 2016 – Present	Participated in international conferences, and published several articles in peer reviewed journals.
March 2013	1st place in ICT showroom 2013 exposition. Best technical and public choice. Project name RAS – Remote alert system.

PERSONAL SKILLS AND COMPETENCES

Languages	Spanish (native language), English (fluent), Finnish (basic)
Computer / Technical skills	Programming: Python (ML framework: Scikit-learn, Pytorch, Keras, TensorFlow) R, C++, JavaScript Databases: SQLite, MySQL, Postgres, RedCap Web Services: RESTful Servers: Linux Redhat, Ubuntu Web Framework: Django, Bootstrap Other: LaTeX
Social skills	Teamwork: worked in various type of team: self-managed team (during my studies), and project teams (developing computer applications and performing data analysis and machine learning). Intercultural skills: I enjoy working in an international environment. During most of my professional career I have been working in different international companies and projects.

SUPERVISION AND TEACHING

January 2016 – Present	Guest lecturer in Evaluation of Machine Learning Methods Course (UTU) Explain a type of cross-validation using a case study.
August 2019 – June 2023	Master's Thesis Kadir Demir: Automatic classification of prostate cancer Gleason scores from biparametric MRI using deep convolutional neural networks.
May 2019 – August 2019	Internship Diana Bocancea: Development of an interactive segmentation tool for prostate tumor detection and segmentation on MRI.

REFERENCES

Peter J. Boström	Chief, Department of Urology, Turku University Hospital Email: peter.bostrom@tyks.fi	Phone: +358 02-3135925
Hannu J. Aronen	Professor and Chair, Department of Diagnostic Radiology, University of Turku Email: hannu.aronen@utu.fi	Phone: +358 02-3133896