

María José Jiménez Alvarado

Contact

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Summary

Passionate about developing people-centric spaces, that fall in line with sustainable practices and gender inclusive policies. My engineering background allows me to take informed decisions based on accurate and reliable data. I have both academic and professional experience. I have found a profound sense of responsibility to engage in climate action through my main field of work, remote sensing.

Work Experience

October 2021 – Current

PhD student

University School for Advanced Studies Pavia – Research and education

Main areas of work include the exploration, analysis and mapping of radar and optical satellite data applied in agricultural and urban landscapes.

November 2020 – October 2021

Research fellow

University School for Advanced Studies Pavia – Research and education

Collaboration in research and education activities in the Department of Science, Technology and Society, in specific drafting of technical reports and scientific papers.

Conducted research and mapping on applications of Earth Observation products.

Utilization of specialized software for satellite image processing.

Remote Sensing training for processing of SAR (Synthetic Aperture Radar) data.

Drafting for an Open Call to obtain Cosmo-SkyMed and TerraSAR-X data for academic purposes.

December 2019 – Current

Co-founder and R&D Director

Urbanalytica – Citizen initiative

Development of data driven small scale projects, responsible for the data collection and mapping processes.

Supervision, participation, and planning of workshops, international contests, and digital campaigns.

Main research on sustainability, open data, and gender-inclusive urban transformations in Costa Rica, within the 2021 Climate Ambassador Program of the Global Youth Climate Network of the World Bank Group.

January 2016 – August 2017

Civil Engineer

DEHC Engineering – Private consultant firm

Maintained effective and cooperate liaison with developers, architectural firms, project managers, other consultants and public agencies for the development and design of new or ongoing infrastructure projects.

Responsible for delivering schematic and construction blueprints that were compatible with BIM.

Responsible of detailed budgeting activities for each project.

Drafting of traffic impact studies, river hydraulic studies and environmental impact studies, where GIS tools were used for mapping, and specialized software for hydraulic design.

Internships and academic experience

May 2021 – July 2021	Teaching Assistant in MSc. course Strategic Planning and Urban Policies Politecnico di Milano – Research and education
October 2018 – February 2019	Urban planner trainee Mapping San Siro – Research and education
January 2014 – October 2015	Research Assistant National Materials Laboratory and Structural Models (Lanamme-UCR) – Research and education
January 2013 – January 2014	Research Assistant Sustainable Urban Development Research Program (PRODUS-UCR) – Research and education

Publications

Salazar Delgado J., Pacheco Fallas J. & Jimenez Alvarado M. (2014). Determinación de la resistencia a la tracción del asfalto (BBS) y trabajo de adhesión (WaL,S) de los ligantes asfálticos, mediante determinaciones de ángulo de contacto. *Métodos Y Materiales*, 4(1), 17-23. <https://doi.org/10.15517/mym.v4i1.21105>

Education

September 2017 – October 2019

MSc. Urban Planning and Policy Design

Politecnico di Milano

February 2009 – December 2015

BSc. Civil Engineering

Universidad de Costa Rica

Technical skills

Programming: SQL, Python

GIS: ENVI, ArcGIS, QGIS, ESRI 3D City Engine, Google Earth Engine

CAD: AutoCAD 3D, Civil3D, Revit

Design: Adobe Illustrator, Photoshop, InDesign, SketchUp

Others: Microsoft Office Suite, HecRas, HecHMS.

Essential skills

- Deadline oriented
- Self-driven
- Leadership
- Project management
- Communication
- Organization
- Problem solving

Languages

Spanish: Mother tongue

English: Working Proficiency (TOEFL)

Italian: Basic/intermediate