Daniel Mateo Neira

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EDUCATION

MSc.   Smart Cities and Urban Analytics, University College London, 2017

BSc.   Architecture and Urbanism, Universidad de Cuenca, 2015

INTERESTS

Spatial data science: statistics/machine learning, spatial analysis, visualization, and spatio-temporal data mining.

Complex systems: complexity theories of cities, systems theory.

Network science: socio-spatial networks and theory.

Urban form, design and planning.

PUBLICATIONS

Conference Papers

2017   Hermida, M.A. Neira, M. Cabrera-Jara, N. Osorio, P. "Resilience in Latin American cities: behaviour vs. space quality in the riverbanks of the Tomebamba River." *Procedia Engineering* (in print).

2016   Orellana, D. Neira, M. Guerrero, M.L. Samaniego P. Hermida, M.A. "New geotools for urban studies." *Proceedings of SBE16 Sustainable Urban Communities towards a Nearly Zero Impact Built Environment*, Victória, Brasil. Vol 2. P.857-866. ISBN 978-85-92631-00-0.

2016   Osorio, P. Neira, M. Hermida, M.A. "Historic relationship between urban dwellers and the Tomebamba River." *Proceedings of SBE16 Sustainable Urban Communities towards a Nearly Zero Impact Built Environment*, Victória, Brasil. Vol 3. P.1385-1394. ISBN 978-85-92631-00-0.

RESEARCH EXPERIENCE

2015–16 Research Assistant
         llactaLab - Sustainable Cities Research Group, Universidad de Cuenca
         Principal Investigator: Daniel Orellana and Maria Augusta Hermida

2011–13 Research Assistant
Faculty of Architecture and Urbanism, Universidad de Cuenca
Principal Investigator: Boris Orellana

TEACHING EXPERIENCE

Universidad de Cuenca

2017 Teaching Assistant
Road networks and scaling laws
Oxford Summer School

2011 Teaching Assistant (Spring 2011, Summer 2011)
Mathematic II
Undergraduate Course

2010–11 Teaching Assistant (Fall 2010, Spring 2011)
Mathematics I
Undergraduate Course

PROFESSIONAL EXPERIENCE

2017 Centre for Advanced Spatial Analysis, UCL
Data Analysis and Visualization
London, United Kingdom

2016 Silvana Regalado Consultants
GIS Technician
Cañar, Ecuador

2014–15 Duran Hermida Arquitectos Asociados
Design Assistant
Cuenca, Ecuador

2011–14 Arquitectura y Diseño A&D
Design Assistant
Cuenca, Ecuador

2011 CA Constructura
CAD Drafter
Cuenca, Ecuador

OTHER ACTIVITIES

Voluntary Organizations and Projects

2014-16 Colectivo Cuenca Ciudad para Vivir
Active Member
Cuenca, Ecuador

2016   Cuenca Conversa
           Co-Founder / Co-Organizer
           Cuenca, Ecuador

SKILLS AND METHODS

Statistical and Computational Methods

Multivariate statistics and various machine learning algorithms, data mining, data wrangling, Python (including numpy, scipy, pandas, matplotlib, statsmodels, networkx, and scikit-learn), web scraping, agent-based modeling and microsimulation (Netlogo), R, JavaScript, HTML, MySQL, Postgres.

Geospatial Methods

GIS, spatial analysis, network analysis, QGIS, ArcGIS, PostGIS, geopandas, urban modeling and simulation, Leaflet, Mapbox, Space Syntax.

Data Visualization and Design

JavaScript (including D3), Tableau, MapboxGl, Processing, Illustrator, Photoshop, Indesign, Revit, Autocad.

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