Meili Vanegas-Hernandez

interests

professional: analytics, visualization, transport and mobility, urban planning, data science, machine learning, big data, web developing, image analysis and processing, business intelligence. **personal:** cycling, drawing, arts, hiking, photography, swimming, music.

professional experience

02.2019 Present — **Steer** — Bogota, Colombia
Consultant
Participating in transport model projects in different cities in Latin America. Developing data-driven systems for decision making in transport and urbanism.
I developed a visual analytics tool that allows analysts insight extraction in trips matrices for a couple of cities in Latin America.

07.2017 05.2018 — **Computer Graphics & HCI Group at TUK** — Kaiserslautern, Germany
Research Assistant
Designing and implementing a visual analytics tool to support failure detection in manufacturing processes.
Master thesis: Developed BioCicle a visual analytics tool to assist biological sequences identification and classification.

01.2017 07.2017 — **ALIANZA CAOBA** — Bogota, Colombia
Researcher
Participating in a project along with the Secretary of Finance in Bogota to identify inaccurate taxpayers in real property taxes.
Developing research activities, state-of-the-art review, data analysis and visualization.
I proposed a visualization that enabled easy outlier-detection in taxpayers.

06.2016 07.2016 — **I3S AND ESPACE LABORATORY AT SOPHIA ANTIPOLIS UNIVERSITY** — Nice, France
Junior Researcher
Working in the project Transport Oriented Modeling for urban denSification Analysis (TOMSA)/ECOS Nord. Building a urban decision support platform, which holds a Urban Agent-Based Model (ABM) to simulate the relocation of households under a spatial and possibilistic scenario and visualize multiple scenarios.

education

08.2017 05.2018 — **M.Sc. Systems and Computing Engineering** — Technische Universität Kaiserslautern
Emphasis in Applied Computing
(International Exchange Program)

01.2017 05.2018 — **M.Sc. Systems and Computing Engineering** — Los Andes University
Emphasis in Applied Computing
[GPA 4.30]

08.2012 12.2016 — **B.Sc. Systems and Computing Engineering** — Los Andes University
[GPA 4.08]

projects and contests

2016 — **Hackathon Cognitiva (Winner)** — IBM, UniAndes, Alianza Caoba
2015 — **IT Innovation Contest (Second Place)** — Los Andes University
2012 — **Summa Cum Laude** — Gimnasio Vermont

publications

08.2017 — **A new urban segregation-growth coupled model using a belief-desire-intention possibilistic framework** — WI '17 Proceedings. Leipzig, Germany

contact

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languages

Spanish (native)
English (proficient)
French (advanced)
German (beginner)

programming

Python, JavaScript, Java, C, SQL, Swift, Matlab, LaTeX, Visual Basic, HTML, CSS

NodeJS, Jupyter Notebooks, MongoDB, Tablau, Django, D3.js, AngularJS, ReactJS