

LISSETTE VALDÉS

Data Analyst | Junior Data Scientist | Python, SQL, Machine Learning

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PROFILE

Mathematician and PhD researcher transitioning into Data Analytics and Data Science, with strong foundations in statistics, regression, optimization, and quantitative modeling. Experienced in Python, SQL, pandas, scikit-learn, data cleaning, visualization, machine learning, clustering, and dashboard development. Combines 15+ years of academic teaching and research with a growing GitHub portfolio focused on applied data projects, reproducible analysis, and clear communication of technical results.

SELECTED DATA PROJECTS

Restaurant Inspection Risk & Compliance Analytics

Python, SQL, SQLite, pandas, data visualization

📅 Portfolio project

- Built an API-to-SQLite pipeline for 311k+ Chicago food inspection records, using paginated extraction, validation checks, SQL aggregation, reusable CSV exports, and visual summaries to analyze outcome, facility-type, time, and ZIP-code risk patterns.

Hotel Booking Cancellation Prediction

Python, pandas, scikit-learn, classification

📅 Portfolio project

- Built a supervised classification workflow to predict booking cancellations using preprocessing pipelines, SMOTE within cross-validation, hyperparameter tuning, and Random Forest evaluation; achieved ROC-AUC 0.90 and accuracy 0.85.

Traffic Wait Time Prediction in Quito

Python, pandas, scikit-learn, regression

📅 Portfolio project

- Developed a regression workflow for urban taxi waiting-time prediction using data cleaning, time-based feature engineering, preprocessing, model comparison, and error-based evaluation.

Global Internet Usage Dashboard

Streamlit, Python, pandas, Plotly

📅 Portfolio project

- Built and deployed an interactive Streamlit dashboard to explore worldwide internet usage from 2000 to 2023 across countries, continents, and GDP-per-capita patterns.

Motivation-Based Participant Segmentation

Python, pandas, scikit-learn, clustering

📅 Portfolio project

- Applied K-Means, hierarchical clustering, DBSCAN, PCA visualization, and cluster profiling to identify gradual participant motivation patterns and motivation-category families.

TECHNICAL SKILLS

- Programming:** Python, SQL, MySQL, Git, GitHub, Jupyter
- Python stack:** pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Plotly
- Analytics:** data cleaning, EDA, feature engineering, visualization, dashboarding
- Machine learning:** regression, classification, clustering, PCA, model evaluation
- BI and tools:** Streamlit, Power BI, Tableau, $\LaTeX$

LANGUAGES

Spanish: Native

English: Professional

German: Working knowledge

EDUCATION

Data Analytics & Data Science Certification

Stackfuel

📅 Nov 2022 – Mar 2023 📍 Germany

Ph.D. in Telecommunication Engineering

University of Málaga, Sobresaliente Cum Laude

📅 2014–2022 📍 Spain

M.Sc. in Mathematics

University of Málaga

📅 2011–2012 📍 Spain

M.Sc. in Mathematics (Optimization)

University of Havana

📅 2005–2007 📍 Cuba

B.Sc. in Mathematics

University of Havana

📅 1999–2004 📍 Cuba

PROFESSIONAL EXPERIENCE

External Seminar Instructor - Lehrbeauftragte

Faculty of Psychology and Human Movement Science

📅 2019–2022

📍 University of Hamburg, Germany

- Delivered Statistics II seminars in English for Psychology Bachelor's students, strengthening students' statistical reasoning and applied analysis skills.

Researcher - Wissenschaftliche Mitarbeiterin

Faculty of Psychology and Human Movement Science

📅 2014–2018

📍 University of Hamburg, Germany

- Taught Statistics I and II, Regression, and Variance Analysis in English to Bachelor's and Master's students.
- Supported academic research and curriculum development involving quantitative methods and statistical modeling.
- Communicated complex analytical concepts to interdisciplinary audiences with different technical backgrounds.

Research Assistant with Teaching Duties

Faculty of Mathematics and Computer Science

📅 2010–2015

📍 University of Havana, Cuba

- Taught Statistics I and II for Geography and Sociology students, connecting mathematical concepts with applied data interpretation.
- Delivered seminars on Linear Optimization for Mathematics Bachelor's students.
- Participated in research and teaching activities involving quantitative problem solving.

Instructor Teacher

Faculty of Mechanical Engineering - ISPJAE

📅 2004–2010

📍 Havana, Cuba

- Taught Mathematical Analysis I and II to Mechanical Engineering Bachelor's students.
- Built long-term expertise in mathematical modeling, structured problem solving, and technical communication.

PUBLICATIONS

📄 Search of the Shortest Path in a Communication Network with Fuzzy Cost Functions

Lisette Valdés, Alfonso Ariza, Sira M. Allende, Alicia Triviño, Gonzalo Joya

📅 2021

📍 *Symmetry*, 13(8), ID: 1534

DOI: 10.3390/sym13081534 | [Link to Article](#)

📄 Searching the Shortest Pair of Edge-Disjoint Paths in a Communication Network. A Fuzzy Approach

Lisette Valdés, Alfonso Ariza, Sira M. Allende, Gonzalo Joya

📅 2019

📍 *ACI Proceedings*

DOI: 10.1007/978-3-030-20518-8_53 | [Link to Article](#)

📄 Peer selection in P2P wireless mesh networks: comparison of different strategies

Lisette Valdés, Alfonso Ariza, Sira M. Allende, Gonzalo Joya

📅 2015

📍 *Soft Computing*

DOI: 10.1007/s00500-014-1572-6 | [Link to Article](#)