BERNARDO FLORES LÓPEZ

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EDUCATION

University of Texas at Austin *June 2026*
Doctor of Philosophy in Statistics and Data Sciences, GPA: 4.0

Coursework: Monte Carlo Methods, Statistical Modelling 1 & 2, Linear Models

National Autonomous University of Mexico (UNAM) February 2021
MS in Mathematics (Probability & Statistics), GPA: 9.82/10 (with honors)
Thesis: On network models based on random measures

Coursework: Multivariate Analysis, Statistical Machine Learning, Bayesian Statistics

National Autonomous University of Mexico *June 2017*
BS in Actuarial Sciences, GPA: 9.27/10
Thesis: inference for stationary time series from a Bayesian nonparametrics perspective (in Spanish)

Coursework: Survival Analysis, Time Series, Nonparametric Methods, Databases, Algorithims & Data Structures

RESEARCH

- Flores, B. and Müller, P. (in prep). Clustering and meta-analysis of studies using a multivariate linear dependent tail-free process.

- Flores, B. and Müller, P. (2023). Discussion on "Bayesian meta-analysis of penetrance for cancer risk" by Thanthirige Ruberu, Danielle Lakshika Braun, Giovanni Parmigiani, and Swati Biswas. Biometrics.

CONSULTING

National Electoral Institute Summer 2021
Statistical Consultant *Mexico City, Mexico*
- Designed sample of polling stations and ballots to estimate the results of a national referendum.
- Automated report generation using R.

National Institute for Nutrition and Medical Sciences June 2019 - Oct 2020
Research Assistant *Mexico City, Mexico*
- Simulated Bayesian point process model to estimate the relative risk across Mexico of non-transmissible diseases.
- Forecasted changes in risk based on policy modifications on the Mexican public health system.

Aleph Data Science & Consulting Sept 2017 - Dec 2018
Jr. Data Scientist *Mexico City, Mexico*
- Prediction and stratification of socioeconomic variables using spatial models.
- Deployment of clustering and classification algorithms for survey data.
- Developed web applications using Shiny.
- Web-scraped social networks.

Institute of Applied Mathematics, UNAM Feb 2017 - Sep 2017
Research Assistant *Mexico City, Mexico*
- Estimated risk of damage to buildings by natural disasters using clustering and spatial techniques.
- Presented results to Mexican Congress.

SKILLS AND AWARDS

- Julia, R, Python, LaTeX, Git, Bash, PyTorch, QGIS, PostgreSQL, Java.
- Fellowship for master's degree, National Council of Science and Technology
- Native Spanish, native proficiency English, intermediate French and German.