

# BERNARDO FLORES LÓPEZ

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## EDUCATION

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### University of Texas at Austin

June 2026

Doctor of Philosophy in Statistics and Data Sciences, GPA: 3.9

*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, Algorithms & Data Structures

## RESEARCH

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- Flores, B., Ni, Y., Xu, Y. and Müller, P. (2025). Graphical feature allocations (In preparation).
- Flores, B., Paul, A., Müller, P. and Wang, W.. (2025). A mutation caller based on contrastive latent factors. (In preparation).
- Schwob, M., Duan, Y., Cantoni, B., Flores, B. and Walker, SG. (2025). Exercises in Statistical Reasoning. CRC Press.
- Flores, B. (2025). Predictive coresets. (In revision).
- Bariletto, N., Flores, B. and Walker, SG. Posterior Consistency in Parametric Models via a Tighter Notion of Identifiability. (In revision)
- Flores, B. and Müller, P. (2025). Clustering and meta-analysis of studies using a multivariate linear dependent tail-free process. Annals of Applied Statistics (in press).
- 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

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### 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.

## INVITED AND CONTRIBUTED TALKS

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<b>Contributed poster at the Summer school on Bayesian statistics and computation</b> <i>HCMC, Vietnam</i>	Aug 2025
<b>Contributed poster at BNP XIV</b> <i>Los Angeles, California</i>	Jun 2025
<b>Contributed talk at Workshop on Bayesian Predictive Inference</b> <i>Los Angeles, California</i>	Jun 2025
<b>Contributed poster at 2025 Best of Statistical Science Workshop</b> <i>College Station, Texas</i>	Apr 2025
<b>Invited talk at Frontiers of Bayesian Inference and Data Science Workshop</b> <i>Oaxaca, Mexico</i>	Sept 2024
<b>Contributed poster at ISBA World Meeting 2024</b> <i>Venice, Italy</i>	July 2024

## SUPERVISION

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<b>Érick Felipe Allard Oropeza, UNAM</b> <i>Honor thesis comitee member, BSc in Actuarial Sciences</i> <ul style="list-style-type: none"><li>Reviewed thesis on spatial point processes.</li></ul>	August 2025 <i>Mexico City, Mexico</i>
<b>Luis Eduardo González Medina, UNAM</b> <i>Honor thesis comitee member, BSc in Actuarial Sciences</i> <ul style="list-style-type: none"><li>Reviewed thesis on spatial modelling of non-transmissible diseases.</li></ul>	March 2022 <i>Mexico City, Mexico</i>

## AWARDS

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- Julia, R, Python, L<sup>A</sup>T<sub>E</sub>X, Git, Bash, PyTorch, Numpyro.
- Travel award for BNP XIV.
- Graduate School Supplemental Fellowship Award
- Fellowship for master's degree, National Council of Science and Technology
- Keller award for exceptional leadership, SDS, UT Austin, May 2024.
- ISBA Travel Award for Junior Researchers, July 2024
- Native Spanish, native proficiency English, intermediate French and German.

## SKILLS

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- Native Spanish, native proficiency English, intermediate French and German.