

\(\text{lorial}\)

in /jorge-loría loriaj.github.io/

m Academic Employment

Aalto University Postdoctoral Researcher, Advisor Dr. Samuel Kaski June 2024-Present Espoo, Finland

2019 - 2024

Education

Purdue University PhD Statistics, Advisor: Dr. Anindya Bhadra

West Lafayette, Indiana, USA 2014 - 2017

Universidad de Costa Rica BS Actuarial Science

San José, Costa Rica

Universidad de Costa Rica

2015 - 2019 San José, Costa Rica

BS Pure Mathematics

Research Interests

• Heavy tails

- Bayesian inference
- Computational methods

- High dimensional data
- Gaussian processes
- Causal inference

Publications

Preprints

» Fernández-Loría, C. and **Loría, J.** (2024+), Inferring Effect Ordering Without Causal Effect Estimation (submitted) [arxiv]

Publications

- » Loría, J. and Bhadra, A. (2025), Deep Kernel Posterior Learning under Infinite Variance Prior Weights. The 13th International Conference on Learning Representations (ICLR 2025). [link] [github]
- » Loría, J. and Bhadra A. (2024). Posterior Inference on Shallow Infinitely Wide Bayesian Neural Networks under Weights with Unbounded Variance. Proceedings of the Fortieth Conference on Uncertainty in Artificial Intelligence, PMLR **244** 2331-2349 [link] [github]
- » Loría, J. and Bhadra, A. (2024). SURE-tuned bridge regression. Statistics and Computing 34, 30. [doi link] [github]
- » Víquez, J. J., Víquez, J., Campos, A., **Loría, J.**, Mendoza, L. A. (2018). Demographic Modeling via 3-dimensional Markov Chains Revista de matemática Teoría y aplicaciones available in https://revistas.ucr.ac.cr/index.php/matematica/article/view/33608

Awards

Somos Purdue Award Class of 2024

recognition of commitment to excellence and for leading with qanas at Purdue University.

Bravo Award Spring 2024

one time staff award

Ross-Lynn Research Scholar Grant Spring 2024

provides funding for notable graduate students

Fully funded assistance to workshop on Bayesian Statistics and Statistical Learning December 2023

IMSI, Illinois, USA

Department of Statistics Travel Award Summer 2023

Department of Statistics Teaching Academy Associate Nominee Spring 2023



\(\text{lorial}\)

in /jorge-loría loriaj.github.io/

Emily and Paul Kidwell graduate student excellence Award

Spring 2022

given to graduate students in the Department of Statistics in Purdue University interested in careers in academia.

Bob and Marjorie McLean Scholarship

Summers 2020 and 2021

given to distinguished graduate students of the Department of Statistics in Purdue University.

Bronze Medal 2015

awarded in Competencia Iberoamericana Interuniversitaria de Matemáticas

Honorable Mention 2014

awarded in Competencia Iberoamericana Interuniversitaria de Matemáticas

Talks and Posters Presented

Predicción en redes neuronales Bayesianas infinitas con pesos de varianza infinita

May 22nd, 2024 CIMAT, Guanajuato, México

Seminario Intersede

SURE-tuned Bridge Regression Contributed Paper in Joint Statistical Meeting

August 7th, 2023 Toronto, Canada

SURE-tuned Bridge Regression

July 10th, 2023

Contributed talk in XVI Latin American Congress of Probability and Mathematical Statistics

São Paulo, Brazil

SURE-tuned Bridge Regression

May 26th, 2023

Poster in Statistics and Optimization in Data Science Workshop, in Purdue Business School

Indiana, USA

SURE-tuned Bridge Regression Invited talk in a weekly colloquium at CIMPA Universidad de Costa Rica.

April 2023 Online

Learner Culture and Perceptions of Social Media Applications and Learning Management Systems for Lan- April 2023 guage Learning

Paper session American Educational Research Association (AERA)

Illinois, USA

Examining Learner Culture, Country, Gender, and English Public Speaking and Peer Feedback Self-Efficacy Round table in AERA

April 2023 Illinois, USA

Learning the Ranking of Causal Effects with Confounded Data

October 2022

Flash talk in INFORMS

Indiana, USA

Research Experience

Purdue University

- Research Assistant to Dr Anindya Bhadra

Spring 2022 and Fall 2023

in the project Inference in Infinite Width Neural Networks with Infinite Variance

- Research Assistant to Dr Arman Sabbaghi

Fall 2020-Summer 2021

designing experiments and evaluating results for refinement of nanotellurene thickness

- Team leader in Statistics for the Community

2019-2021

investigated the effects of having a bicycle to enable access to charity locations for impoverished people, with the LifeCycle program (voluntary).



\(\text{lorial}\)

in /jorge-loría loriaj.github.io/

Universidad de Costa Rica

- Research Assistant to Dr Luis Barboza

2016

» implementing an actuarial model for a projection model of Caja Costarricense del Seguro Social

- Research Assistant to Dr Juan José Víquez

2015

» implementing a multivariate Markov chains model for the projection of public universities in Costa Rica

Service

Thesis advisor

» Zachris Björkman (2024), Lotta Mäkinen (2025), and Axel Hedman (in progress)

Teaching Experience

Aalto University Fall 2022

Espoo, Finland Instructor

» Co-organized a seminar on causal inference, following Pearl's 'primer' book on causal inference.

Purdue University Fall 2022

Instructor

Instructor

Indiana, United States

» Taught one section of the course Introduction to Statistics. An introductory course for undergraduate students of computer science, mathematics, actuarial science, and statistics majors. Responsibilities included three weekly lectures, preparation of the relevant material, grading, and collaboration with the other instructors in the evaluation and design of the assignments of the course.

Purdue University

Fall 2021 - Summer 2022, Summer 2023

Indiana. United States

January 2017 - July 2018

San José Costa Rica

» Taught two sections of the course Elementary Statistical Methods. An undergraduate level course for non-stem majors. Responsibilities included two weekly lectures to each section, preparation of the material, grading, leading teaching assistants and collaboration with other instructors for the evaluation of the course assignments.

Purdue University Fall 2019 - Spring 2021 Teaching Assistant Indiana, United States

» Held laboratories for two sections, office hours, and grading for the course Elementary Statistical Methods.

Universidad de Costa Rica Fall of 2017 & 2018

San Iosé. Costa Rica Instructor

» Taught undergraduate course on basic functionalities of Excel and R. Responsibilities included lesson planning, course scheduling, and preparation of homework, exams, and course projects.

Industry Experience

Banco Promérica January 2019 - July 2019 San José Costa Rica

Financial Risk Analyst, analyzed financial data to evaluate and forecast credit risk

Quanto Soluciones S.A.

Actuarial Model Programmer, implemented credit risk models

Communication

Spanish Native **English** Advanced **Portuguese** Basic

- Vice-president of Costa Rican Students Association at Purdue (CRISaP)

♥ Leadership Roles

- President of Statistics Graduate Student Organization

2021-2022

Indiana, USA

2021-2024

Indiana, USA