

Jorge Loría

PhD in Statistics

 /loriaj

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 loriaj.github.io/

Academic Employment

Aalto University

Postdoctoral Researcher, Advisor Dr. Samuel Kaski

Starting June 2024

Espoo, Finland

Education

Purdue University

PhD Statistics, Advisor: Dr. Anindya Bhadra

2019 – 2024

West Lafayette, Indiana, USA

Universidad de Costa Rica

BS Actuarial Science

2014 – 2017

San José, Costa Rica

Universidad de Costa Rica

BS Pure Mathematics

2015 – 2019

San José, Costa Rica

Research Interests

- Heavy tails
- High dimensional data
- Bayesian inference
- Gaussian processes
- Computational methods
- Causal inference

Publications

Preprints

- » **Loría, J.**, Bhadra A. (2023+), Posterior Inference on Shallow Infinitely Wide Bayesian Neural Networks under Weights with Unbounded Variance (*submitted*) [[arxiv](#)] [[github](#)]
- » Fernández-Loría, C, **Loría, J.** (2023+), Causal Scoring: A Framework for Effect Estimation, Effect Ordering, and Effect Classification (*submitted*) [[arxiv](#)]

Publications

- » **Loría, J.**, 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

recognition of the commitment to excellence and for leading with *ganas* at Purdue University.

Class of 2024

Bravo Award

one time staff award

Spring 2024

Ross-Lynn Research Scholar Grant

provides funding for notable graduate students

Spring 2024

Fully funded assistance to workshop on Bayesian Statistics and Statistical Learning

IMSI, Illinois, USA

December 2023

Department of Statistics Travel Award

Summer 2023

Department of Statistics Teaching Academy Associate Nominee

Spring 2023

Emily and Paul Kidwell graduate student excellence Award

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

Spring 2022

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

SURE-tuned Bridge Regression

Contributed Paper in Joint Statistical Meeting

August 7th, 2023

Toronto, Canada

SURE-tuned Bridge Regression

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

July 10th, 2023

São Paulo, Brazil

SURE-tuned Bridge Regression

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

May 26th, 2023

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 Language Learning

Paper session American Educational Research Association (AERA)

April 2023

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

Flash talk in INFORMS

October 2022

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*).

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

Teaching Experience

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Purdue University

Instructor

Fall 2022

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

Instructor

Fall 2021 – Summer 2022, Summer 2023

Indiana, United States

» 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

Teaching Assistant

Fall 2019 – Spring 2021

Indiana, United States

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

Universidad de Costa Rica

Instructor

Fall of 2017 & 2018

San José, Costa Rica

» 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

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

January 2019 – July 2019

San José Costa Rica

Quanto Soluciones S.A.

Actuarial Model Programmer, implemented credit risk models

January 2017 – July 2018

San José Costa Rica

Communication

Spanish Native

English Advanced

Portuguese Basic

Service and Leadership

- **President of Statistics Graduate Student Organization**

2021-2022

Indiana, USA

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

2021-2024

Indiana, USA