Gian Carlo Di-Luvi

Curriculum Vitae

✉ *gian.diluvi@stat.ubc.ca*
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Formal Education

2019 –Present **MSc in Statistics**, University of British Columbia (UBC), British Columbia, Canada.

2013 – 2017 **BSc in Applied Mathematics**, Instituto Tecnológico Autónomo de México (ITAM), Mexico City.
Thesis: *Bayesian Design of Experiments for Generalized Linear Models*.
Thesis supervisor: Dr. Ernesto Barrios Zamudio.

Academic Distinctions and Awards

2019 – 2020 International Tuition Award; UBC; $3200 CAD.

2019 Honorary Mention in the XXIV ITAM Alumni Research Prize.

2018 Graduated *summa cum laude* from my undergraduate degree.

2013 – 2017 GPA in the top 1% of my undergraduate cohort.

2013 – 2016 75% scholarship at ITAM.

Research Interests

- Computer experiments, specifically paired with Gaussian process emulators.
- Computational statistics, particularly in the context of MCMC methods.
- Bayesian design of experiments.
- Applications of statistics in health (e.g. epidemiology) and social sciences (e.g. quick counts in general elections).
- R programming.

Academic Positions

Sep. 2019 –Present **Teaching Assistant**, Department of Statistics, UBC.
STAT 203 Statistical Methods

Jan. 2017 –Dec. 2017 **Editor in Chief**, Laberintos e Infinitos, ITAM.
As editor in chief of Laberintos e Infinitos, ITAM's Mathematics' student journal, I led a 10-people team; during my tenure, three numbers were published and the fifteen-year anniversary of the journal was successfully celebrated.

2015 – 2016 **Editor**, Laberintos e Infinitos.

Jan. 2017 –Jun. 2017 **Undergraduate Faculty Member**, Department of Mathematics, ITAM.
The Undergraduate Faculty of the Department of Mathematics selects senior students of academic excellence to tutor and answer questions from younger students about any of the courses offered in the Applied Mathematics BSc.

Jan. 2016 –Dec. 2016 **Teaching Assistant**, Department of Statistics, ITAM.
EST-14102 Probability Calculus II.
- Multivariate random variables and probability distributions.
- Sequences of random variables and types of convergence.
- Law of large numbers and Central Limit Theorem.

Scholarly Activities

Publications

- Di-Luvi, G. C. (2019). How does it make you feel? *Significance, 16*(3), 26-29.
- Di-Luvi, G. C., Mendoza, M., and Orantes, G. (2018). Statistics in the 2018 Mexican general election quick counts. *Laberintos e Infinitos, 48*, 29-37.
- Di-Luvi, G. C. (2018). Bayesian Design of Experiments. *Laberintos e Infinitos, 46*, 43-50.
- Di-Luvi, G. C. (2017). Generalized Linear Models: A Bayesian Perspective. *Laberintos e Infinitos, 45*, 36-45.
- Di-Luvi, G. C. (2017). Decision Theory and Bayesian Statistics. *Laberintos e Infinitos, 44*, 6-13.
- Di-Luvi, G. C. and López Portillo, R. (2016). Epidemiological modeling using dynamical systems. *Laberintos e Infinitos, 42*, 34-41.
- Alvarado, C., Di-Luvi, G. C., and Espinosa, D. (2016). The Metropolis-Hastings Algorithm. *Laberintos e Infinitos, 41*, 21-30.

Conference Presentations

- Di-Luvi, G. C. (Nov. 2018). *Statistics in the 2018 Mexican general election quick counts.* ITAM's Mathematics Colloquium, Mexico City.
- Di-Luvi, G. C. (Oct. 2017). *Generalized Linear Models.* ITAM's Mathematics Colloquium, Mexico City.

Professional Experience

2016 –2019 **Business Analytics Coordinator**, Pfizer, Mexico City.
I developed data-driven models and analyses to discover business insights. These are usually presented to directors and managers with little to no formal statistical training.

2018 **Quick Counts Committee Advisor**, Mexico's National Electoral Institute (INE), Mexico City.
The INE formed a nine-member and twelve-advisor committee to carry out quick counts for the 2018 Mexican general election. I worked as committee member Dr. Manuel Mendoza's advisor. We improved his original Bayesian model, defined the sampling design used in Chiapas, and I developed the code for generating the official federal report.

Languages

Spanish Native language.
English C2.

Certificates

- International English Language Testing System (IELTS): 8.5/9.0, October 2017.
- R Programming by Johns Hopkins University on Coursera, July 2016.