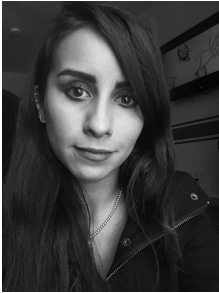# fernanda mora

B.Sc. Applied Mathematics ● B.Sc. Actuarial Sciences ● M.Sc. Computer Science candidate

about

Mexico city

a.cotton.soul@gmail.com

github.com/Sophie-Germain

sophie-germain.github.io/

languages
spanish (native)
english (high proficiency)

programming
R, Python, Matlab (fair)
Java, C, Bash (basic)

other
PostgreSQL, LaTeX, Sublime, Office Suite, GitHub, Docker

about

"If you cannot measure it, you cannot improve it". My major goal is to **generate value** through *state-of-the-art technologies and models* that tackle relevant problems in *society, government and companies*. My second goal is to promote a quantitative & data-driven approach to problem-solving and decision-making.

To achieve this I have developed a **unique academic & industry experience** that combines **theory + research** with a **practical + client-oriented approach**. Please take a look to my `website` to find a more detailed picture of my profile.

Academic interests

- *Computer Science:* computer architecture, distributed computing, Android OS security
- *Machine Learning:* Deep Learning
- *Data Science:* Big Data, Cloud computing
- *Pure Mathematics*: Set Theory, Functional Analysis, Group Theory
- *Statistics and Finance:* Bayesian, Derivatives, Risk Theory

Non-academic interests

- Strategic and Management Consulting
- Value proposition and pricing
- Business intelligence analytics with data-driven solutions
- Integration, management, securing, and analysis of enterprise and governmental data
- Startups
- Web Development

education

since 2015	**M.Sc. candidate in Computer Science** *Working on machine reading comprehension*	Instituto Tecnológico Autónomo de Mexico
2015	**B.Sc. in Applied Mathematics** *Thesis with special mention: Deep Learning Fundamentals Applied to Electric Energy Consumption Forecasting in Mexico.* `Link to thesis` `Link to deck`	Instituto Tecnológico Autónomo de Mexico
2012	**B.Sc. in Actuarial Sciences** `Link to thesis`	Instituto Tecnológico Autónomo de Mexico

academic experience

2016, 2m	**Carnegie Mellon University**	Visiting Research Scholar

Worked with Profr. Eric Nyberg in Machine Learning models for Q&A at the Language Technologies Institute. `Link to project report`

2016	**Instituto Tecnológico Autónomo de Mexico**	Graduate Seminar Professor

Teaching Data Mining tools to support decision making. `Github repo`

2015, 6m	**Computational Research and Analysis Laboratory (ITAM)**	Data Scientist

Machine learning and visualization of credit data for nonpayment prediction

2010, 6m	**Instituto Tecnológico Autónomo de Mexico**	Teaching Assistant

Economics IV (non-competitive markets)

ind**ustry experience**

since 2015	**Freelance consulting**	Consultant

Business strategy, data mining and statistical consulting

2015, 2m	**AbbVie Mexico**	Project Coordinator

Tailor-made value propositions for AbbVie's drug portfolio

2013-2014	**LifeSciences Consultants**	Management Consultant

Health economics, cost-effectiveness analysis, market access strategies

2010-2011	**Sociedad Financiera Campesina**	Financial Analyst

Evaluation and assessment of credit portfolios

2012, 3m	**ADRISA**	Actuarial Analyst

Estimation and forecasting of the premium of life insurances

2009-2010	**Cuasar Capital S.C.**	Financial Analyst

Financial assessment of infrastructure and real-state projects

pub**lications**

Local layered algorithmic model for topological design of rural telecommunications networks. Presented on the International Conference on Operations Research for Development, ICORD 2016. `Link to paper`

Carga Económica de la Diabetes Mellitus en México, 2013. Fundación Mexicana para la Salud A.C. `Link to paper`

con**ferences**

International Conference on Operations Research for Development, ICORD 2016: Presenter of a paper and revisor of two papers.

ack**nowledgments**

- 90% Bachelor's tuition scholarship for strong academic performance
- 60% Master's tuition scholarship for strong academic performance
- National Council of Science and Technology Master's scholarship for strong academic performance