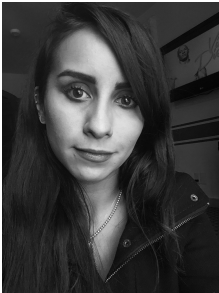


# fernanda mora

M.Sc. Computer Science candidate



## about

Mexico city

a.cotton.soul@gmail.com

github.com/Sophie-Germain

## languages

spanish (native)  
english (high proficiency)

## programming

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

## other

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

## interests

"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**.

### Academic interests

- *Computer Science*: computer architecture, distributed computing, network security
- *Machine Learning*: Deep Learning
- *Data Science*: Big Data, Cloud computing
- *Pure Mathematics*: Set Theory, Functional Analysis, Group Theory, Measure 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 | <b>M.Sc. candidate in Computer Science</b>  | Instituto Tecnológico Autónomo de México |
|            | Specialization in Deep Learning   |  |
| 2015       | <b>B.Sc. in Applied Mathematics</b>   | Instituto Tecnológico Autónomo de México |
|            | Specialization in Machine Learning. <i>Thesis: Deep Learning fundamentals and an application to forecast electric energy demand in Mexico</i> |  |
| 2012       | <b>B.Sc. in Actuarial Sciences</b>  | Instituto Tecnológico Autónomo de México |
|            | Specialization in Statistics  |  |

## academic experience

- |          |   |                            |
|----------|---|----------------------------|
| 2016, 6m | <b>Carnegie Mellon University</b>   | Visiting Research Scholar  |
|          | <i>Worked with Profr. Eric Nyberg in Machine learning models for Q&amp;A at the Language Technologies Institute</i> |                            |
| 2016     | <b>Instituto Tecnológico Autónomo de México</b>   | Graduate Seminar Professor |
|          | <i>Teaching Data Mining tools to support decision making. Github repo</i>   |                            |
| 2015, 6m | <b>Computational Research and Analysis Laboratory (ITAM)</b>  | Data Scientist             |
|          | <i>Machine learning and visualization of credit data for nonpayment prediction</i>                                  |                            |
| 2010, 6m | <b>Instituto Tecnológico Autónomo de México</b>   | Teaching Assistant         |
|          | <i>Economics IV (non-competitive markets)</i>   |                            |

## industry experience

since 2015	<b>Freelance consulting</b> <i>Business strategy, data mining and statistical consulting</i>	Consultant
2015, 2m	<b>AbbVie Mexico</b> <i>Tailor-made value propositions for AbbVie's drug portfolio</i>	Project Coordinator
2013-2014	<b>LifeSciences Consultants</b> <i>Health economics, cost-effectiveness analysis, market access strategies</i>	Management Consultant
2010-2011	<b>Sociedad Financiera Campesina</b> <i>Evaluation and assessment of credit portfolios</i>	Financial Analyst
2012, 3m	<b>ADRISA</b> <i>Estimation and forecasting of the premium of life insurances</i>	Actuarial Analyst
2009-2010	<b>Cuasar Capital S.C.</b> <i>Financial assessment of infrastructure and real-state projects</i>	Financial Analyst

## acknowledgments

- 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

## skills & competencies

- Unique academic-industry profile that combines theory and research with practice and client experience
- Solid mathematical modeling, research, analysis and problem solving techniques
- Multidisciplinary knowledge of relevant areas such as data science, computer science, statistics, probability, finance and economics
- Competent in machine learning and statistical modeling, risk, financial and cost-benefit analysis
- Creative, entrepreneurial, efficient, a quick-learner, enthusiastic about intellectual challenges, trust-worthy, a team player and hard-working

## publications

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

**Carga Económica de la Diabetes Mellitus en México, 2013.** Fundación Mexicana para la Salud A.C..

## conferences

**International Conference on Operations Research for Development, ICORD 2016:** Pre-senter of a paper and revisor of two papers.