

Experience

- 2016 **Data Scientist in Residence**, *Galvanize (f.k.a. Zipfian Academy)*, San Francisco, CA, USA.
Technical Admissions Officer : Assessed coding skills (Python & SQL) and statistics proficiency for 500+ candidates to Galvanize programs
- 2014-2015 (7 months) **Consultant**, *ENGIE (f.k.a. GDF SUEZ)*, Paris, France.
Engie is a French multinational company providing electricity, natural gas and energy services
– Implemented a "Digital Reverse Mentoring Program" for the Top Executives of the Group (Y-Generation employees discussed digital opportunities with over 20 senior executives)
– Developed two HR policies : top technical experts and major industrial projects division
- 2011-2014 **Doctoral Researcher**, *ENS-Chemistry Department*, Paris, France.
Organic Chemistry and Physical Chemistry with explorations into Microfluidics and Molecular Biology
Obtained a 15 k€ award from the L'Oreal Foundation and UNESCO for this work

Education

- 2015-2016 **Data Science Fellow**, *Galvanize (f.k.a. Zipfian Academy)*, San Francisco, CA, USA.
Data Science Immersive Program - October 2015 cohort
completed a 12 weeks, intensive, project-based curriculum to acquire the tools, techniques, and fundamental concepts for a data scientist. Projects included : Movie Recommender, NYT Topic Discovery, Fraud Detection. Algorithms included : linear/logistic regression, random forest, SVM, clustering, NLP, PCA, deep learning.
- 2011-2015 **MBA**, *Collège des Ingénieurs and Pierre and Marie Curie University (UPMC)*, Paris, France.
Joint Program "Sciences and Management"
UPMC is ranked 1st in France by the 2014 Academic Ranking of World Universities
- 2011-2014 **PhD in Chemistry**, *École normale supérieure*, Paris, France.
Obtained with highest distinction
"Chemically and optically programmable Soft Matter : DNA compaction, protein activity and microfluidics"
- 2007-2011 **BS and MS in Chemistry**, *École normale supérieure de Lyon*, Lyons, France.
Obtained with highest distinction
ENS de Lyon is a very selective institution preparing students for careers in research and higher education.
- 2009-2010 **Agrégation in Chemistry**, *École normale supérieure de Lyon*, Lyons, France.
Ranked 5th nationwide
Agrégation is the most competitive examination for teaching careers in higher education in France.

Skills

Computer skills

Data Analysis and Machine Learning – Python (iPython Notebook, scikit-learn, SciPy, nltk...)
Data Acquisition, Data at Scale – Python (Pandas, BeautifulSoup), SQL, MongoDB, AWS
Web Apps and Visualization – Python (Flask), HTML5/CSS, Javascript
Document/Image Editing – LaTeX, TikZ, Adobe Illustrator, Premier Pro, Image J

Communication skills

Translating technical concepts – over 3 000 hours teaching and tutoring experience at high school, bachelor and master level in mathematics and science

Sharing technical findings – 5 talks/poster presentations in international conferences, and 4 successful collaborations initiated worldwide (Taiwan, Hong-Kong, USA) as a PhD candidate

Writing technical reports – 9 publications as author and co-author in peer-reviewed journals, 2 high-school chemistry textbooks and >10 comprehensive corrections to entrance exams to engineering schools.

Languages

English (proficient), French (mother tongue), German (limited proficiency), Portuguese (basic)