Raphaël Romero

Phd Student in Machine Learning

Personal Data

Contact:	+336 65 75 36 73 | raphael.romero@ugent.be
website:	Research website

Education

2020 - Now	**Ghent University** Phd Student in Machine Learning
	• Project: Latent Variable models for static and temporal graphs
	• Supervisor: Prof. Tijl De Bie
2017-2018	**ENS Paris-Saclay**, Master 2 MVA, Paris, France
	• Top 1 Master in Machine learning and Computer Vision in France
	• Modules: Convex Optimization, Probabilistic Graphical Models, Computational Statistics, 3D Computer Vision, Object Recognition, Audio Indexing and transformations, Audio Signal Processing: Time-Frequency Analysis, Kernel Methods for Machine Learning, High-dimensional Statistics and learning, Deep Learning
	• With Honors
2015-2017	**Telecom Paristech**, Master of Engineering, Paris, France
	• Top 5 French Engineering "Grandes écoles"
	• Modules: Applied Mathematics (Probability, Statistics, Stochastic Calculus, Signal and Image Processing), Data Sciences (Supervised and Unsupervised Learning, Convex Optimization), Computer Programming (Python, Matlab, C++, R)
	• GPA first year : 3.70, second year : 3.93
2013-2015	**Lycée Charlemagne**, CPGE MPSI/MP*, Paris, France
	• Intensive preparation to the "Grandes Ecoles" entrance exams
	• Modules: Mathematics, Physics and Computer Science

Experience

2020-Now	**PhD Student/ Research Assistant in AIDA-UGent**
	• Research Focusing on Latent variable models for general graph data. Teaching assistant in the "AI Research Seminar" course.
	• Event organization Part of the organizing team of ECML-PKDD 2020, as well as the ECML-PKDD 2021 Satellite Event, hosted by the AIDA group in Ghent.
2019-2020	**Data scientist at Shift Technology**
	• Data engineering: Preprocessing and migration between several relational data models.
	• Client project: Deployment of Shift's Force (fraud detection solution) at a client's fraud investigation department. Definition of decision rules with the fraud handlers, and adaptation of the graph-based network detection feature to the client's data.
	• Technologies used: C#, SQL
2018	**Internship at Jalgos A.I.**
	• Research Project: Predicting the evolution of stock prices of big tech companies using financial news.
	• Client missions: Data visualization tool for the Société Générale (bank), False alarm reduction for Scutum (video-surveillance company), Recommander System for Huh School (English Learning Application)
	• Technologies used: R, Shiny, PlotLy, MongoDB
2016-2018	**Tutoring**
	• Homework support for high school and undergraduate students

Skills

Languages	French(Mothertongue), English(Fluent), Spanish(C1),Dutch(B1), German(A1)
Coding	Currently working with Python (Numpy, Pandas, Matplotlib, Pytorch, Pytorch Lightning, Pyro...)
	Work experience with: R, C#, SQL
	School Experience with: C, HTML/CSS, javascript, Java
Deployment	Work experience with Github Actions, Octopus Deploy, Teamcity

Activities and Interests

2016-2017	**Vice-President of the Sound and Light Student Organization**
	Had to handle professional sound and light equipments, ensuring the safety of the installations during student events
	20 000 $ budget, 10-15 events per year, 10 people team
July-2016	**Volunteer Receptionist**, Fortaleza, Brazil
	Shifts, Responsibilities regarding up to 30 international costumers
Music	Piano, Guitar, Music Production(Ableton Live)
Sport	Running, Bouldering, Winter sports(snowboarding)
Reading	Literature and philosophy