

Raphaël Romero

Phd Candidate in Machine Learning

Personal Data

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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

Work 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), Recommender System for Huh School (English Learning Application)
 - **Technologies used:** R, Shiny, Plotly, MongoDB
- 2016-2018 [Tutoring](#)
- Homework support for high school and undergraduate students

Research Output

- [Romero, R., Kang, B., De Bie, T. \(2022\) Graph-Survival: A Survival Analysis Framework for Machine Learning on Temporal Networks. 1-13. Under Review \(arxiv\)](#)

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
Deployment	School Experience with: C, HTML/CSS, javascript, Java 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