Augustin Godinot

Performance, Safety | Theory, experiments | I like oxymorons.

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Education

Université de Rennes, INRIA, CNRS, PEReN	**2022 - est. 2025**
Measuring the mutations of online AI models	PhD

I develop a theoretical model of audit manipulations. My aim is to bridge the current AI auditing practices with robust estimation theoretical tools. To that end, I work closely with PEReN: the French center of expertise for digital platform regulation.

Centrale-Supelec	**2021-2022**
M2 Advanced Wireless Communication Systems	Msc
ENS Paris-Saclay	**2020-2021**
M2 Mathématiques, Vision, Apprentissage (MVA)	Msc
ENS Paris-Saclay	**2018-2022**
Département Nikola Tesla (EECS)	Bsc

Selected Publications

Under manipulations, are some AI models harder to audit?	**2024**
2nd IEEE Conference on Secure and Trustworthy Machine Learning (SaTML2024)	

Augustin Godinot, *Gilles Tredan, Erwan Le Merrer, Camilla Penzo, Francois Taiani*

Measuring the effect of collaborative filtering on the diversity of users' attention	2023
Applied Network Science	

Augustin Godinot, *Fabien Tarissan*

Talks

SaTML 2024	**April 2024**
Under manipulations, are some AI models harder to audit?	Toronto
Reading group IR LAB, UVA	**March 2024**
Audits and manipulations. Invited by Sami Jullien	Amsterdam
PrivSec, UQAM	**April 2024**
Audits and manipulations. Invited by Sébastien Gambs	Montreal
SACS, EPFL	**December 2023**
Under manipulations, are there ML models harder to audit? Invited by Anne-Marie Kermarrec	Lausanne
PFIA	**July 2023**
Change-Relaxed Active Fairness Auditing	Strasbourg

Awards

Best poster Runner-Up	**July 2024**
Hi!Paris Summer school	
SaTML 2024 Travel Support Award	**April 2024**
IEEE SaTML	
Hackathon "Segment me if you can!", ranked 2nd	**November 2022**
Awarded by the French Minister for the Digital Sector	
ENS 4 year government scholarship	**Septembre 2018**
French Ministry of Higher Education	

Teaching	**Optimization, MSc**	**2023-now**
	Convex optimization, proximal optimization. I created and taught	Université de Rennes
	the practical labs.	
	Tools for statisticians, BSc	**2023-now**
	Introduction to Git, Jupyter Notebooks and Latex	ENSAI

Experience

Université de Rennes, INRIA, CNRS, PEReN   **November 2022 - Present**
PhD Student. Auditing the mutations of online AI models.   Rennes | Paris, France

Naverlabs Europe   **April - October 2022**
Research Intern: Search and Recommendation   Grenoble, France

- Studied the emergence and optimization of diversity in Search and Recommendation systems.
- Created **theoretical tools** derived from Information Theory and Optimization **to understand** the surprising diversity performance of models trained with Noise Contrasted Estimation Loss.
- **Trained and evaluated** neural retrievers (BERT, SPLADE and variants) on large scale GPU platforms.

Nokia Bell Labs   **February - August 2021**
Research Intern: Multi-Agent Pathfinding   Nozay, France

Conducted an analysis of state-of-the-art algorithms for the Online Multi-agent Path Finding problem. **Implemented an online solver** in Go for the Bell Labs multi-robot environment, **used by researchers and clients from Bell Labs**.

ISP, ENS Paris-Saclay   **September 2020 - February 2021**
Research Intern: Complex Networks   Gif-sur-Yvette

Measured the impact of a recommender system on the diversity of the content exposed to users. Conference paper at CNA2021 and journal paper in Applied Network Science.

eLichens   **May - August 2020**
Engineering Intern: Signal processing   Grenoble, France

Lycée Louis Pasteur   **September 2017 - July 2021**
Mathematics Oral Examiner (Khôlleur)   Neuilly-sur-Seine, France

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Skills	**ML Experiments**	**Theoretical Analysis**	**General**
	Python, Pytorch, Scikit-Learn, Hugging Face, Polars/Pandas, GPU programming, seaborn	mathematical modelling, ML theory, probability theory, optimization, robust estimation	scientific writing (latex, typst), programming (Rust, Go, C), team work (git), communication

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Languages	**French**	**English**	**German**
	Native.	Excellent command. Cambridge Advanced Exam Certification Level C2 (highest level)	Basic knowledge. European Level B2.

Interests	**Fencing**	**Off the grid**	**La rustine (co-president)**
	Competitive practice, Official referee	cycletouring, climbing every mountain I can see	community bike repair shop, we help students repair their bikes for free