

Eliott Zémour

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Cambridge, MA [i](#) Dec 1999, 22 y.o.



Bio. I am currently carrying out my Master Thesis at MIT, working on fairness and bias-mitigation for natural language generation. As of march 2023, I will be graduating from EPFL with a Masters in Computational Science and Engineering (CSE).

Education

- 2022-2023 **Graduate Research Student**, *Massachusetts Institute of Technology* (MIT), United States
Master Thesis at Decentralized Information Group (CSAIL)
Professor : *Lalana Kagal*
- 2020-2023 **MSc in Engineering**, *École Polytechnique Fédérale de Lausanne* (EPFL), Switzerland
Master in Computational Science and Engineering, GPA : 5.42/6.0 (current)
- 2019-2020 **Exchange Year**, *Imperial College London*, UK
BSc in Physics – 3rd year
- 2017-2020 **Bachelor of Science**, *École Polytechnique Fédérale de Lausanne* (EPFL), Switzerland
BSc in Physics, GPA : 5.19/6.0

Experiences

- Present** | **Co-founder and CTO, Slito**
Mar 2022 | SaaS startup digitalizing the artisan industry by connecting individuals and professionals
www.slito.fr
- Aug 2022** | **Data Science Intern, ILLUIN Technology**, Paris
Feb 2022 | Deep Learning and state-of-the-art Natural Language Processing
Multimodal NLP for Document Visual Question Answering (LayoutLM family, DocVQA)
Natural Language Generation with GPT & BLOOM LLMs (job descriptions, question generation)
- Feb 2022** | **Teaching Assistant, EPFL**, Lausanne
Jan 2019 | Artificial Neural Networks, Reinforcement Learning, Advanced Physics (Mechanics and Thermodynamics)

Projects

- Feb 2023** | **Privacy and Fairness for Natural Language Generation, Research Projects, MIT**
Sep 2022 | [➤ Investigating private NLG for synthetic data generation \(secure data sharing\), Master Thesis on Fairness and Bias-mitigation for NLG.](#)
[Natural Language Generation](#) [Synthetic Data Generation](#) [ML Privacy](#) [Fairness](#)
- Jan 2022** | **Effective Membership Inference Attacks against Image And Language Model, Semester Project, EPFL**
Sep 2021 | [➤ SOTA Membership Inference on ResNet and GPT2 models. Link : \[eliottzémour.github.io/mia/\]\(https://eliottzémour.github.io/mia/\)](#)
[ML Privacy](#) [Membership Inference](#) [NLP](#) [Computer Vision](#) [Differential Privacy](#)

Skills

Programming Skills : C/C++, Python, Matlab, R, Git.
Machine Learning : Pytorch, Transformers, Tensorflow, Pandas, Spacy
Other : GCP, AWS, Deepspeed, CUDA, SQL, HF Hub, Gradio.

Languages

French : Native.
English : Fluent.
Spanish : Intermediate.

(last update : 21 Nov. 2022)