# Eliott **Zemour**

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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

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| 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 : 5.19/6.0 (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

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

## </> Projects

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

## 🖥 Skills

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| 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

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

(last update : 21 Nov. 2022)