

Matthieu Meeus

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[LinkedIn](#)/[Google Scholar](#)

Education

Imperial College, London – PhD student in Privacy of AI

Oct 2022 – London, UK

- Part of the [Computational Privacy Group](#) under supervision of Prof Yves-Alexandre de Montjoye
- Since the start of my PhD, I have 10 first-author papers published/under review. For details see *Publications*.
- Currently continuing the work on privacy/memorization of Large Language Models.
- Current side-project: fine-tuning LLaMA-2/3 to Dutch (my native language) supported by a grant from the [Flemish Super Computer](#) for 40k GPU hours – [just released!](#)

Harvard University – M.Sc. in Computational Science & Engineering

Class of 2020 – MA, USA

- Three semesters of advanced mathematical programming ranging from Numerical Methods to Data Science, Optimization, Systems Development etc. – GPA 3.85/4.0
- Teaching Fellow for the core graduate-level course in Advanced Numerical Methods during Fall 2020
- Fellowship of \$100,000 – Belgian American Educational Foundation – Awarded to only 7 students

University of California, Berkeley – M. Eng. in Mechanical Engineering

Class of 2019 – CA, USA

- One-year master with focus on Advanced Energy Technology – GPA 3.98/4
- Fung Excellence Scholarship – UC Berkeley Fung Institute for Engineering Leadership

University of Leuven – B.Sc. in Engineering – major Mechanical Engineering

Class of 2018 – BE

- Best of my class after the first year out of more than 500 – Received Best Student Award

Work Experience

Intern at Microsoft Research

May 2024- August 2024 – Cambridge, UK

- Part of the privacy-preserving machine learning research group, working together with Lukas Wutschitz, Robert Sim and Reza Shokri.
- Researching privacy auditing of synthetic text data generated by LLMs, [work accepted at ICML 2025](#).

Senior Data Scientist at McKinsey & Company

March 2021- July 2022 – NYC, USA

- As part of the People Analytics and Measurement team, I built machine learning models to optimize the core asset of McKinsey: its people.
- Leveraged transformer-based NLP models to extract features from free text resumes to improve the existing candidate ranking model by 10%. Now globally deployed.
- Built a ‘job-matching’ algorithm to detect similar jobs across the Firm, based on categorical features and job description language embeddings. Now globally deployed on the McKinsey career website.
- Built a ‘resume-to-job’ algorithm, that given free-text resumes recommends the top jobs within the firm based on your qualifications. Leverages document embeddings and other text features.
- Built a search engine for transcripts of expert interviews, based on language embeddings and named entity recognition.
- Many ad-hoc projects including NLP for McKinsey projects, prediction of attrition, the composition of ideal teams etc.

Energy Optimization Intern at Tesla Inc.

May-August 2020 – CA, USA

- Software development for Tesla’s Energy Optimization Team, working on optimal battery discharge strategies in Python
- Simulated the performance of a new time series forecasting method: will be implemented based on my analysis.
- Built the first parallelized performance tracking algorithm for one of the team’s products using Kubernetes and AWS.

Projects during M. Sc. at Harvard University

Fall 2019-Fall 2020 – MA, USA

- Research with Prof D. Sondak on solving PDEs with Deep Neural Networks in Pytorch – Spring and Fall 2020
- Used Bayesian inference to predict the 2020 US primary elections using Twitter sentiment variation over time - [link](#)
- Built a ready-to-use Python package for Automatic Differentiation - [link](#)

Publications

- [1] **Meeus, M.**, Jain, S., Rei, M., & de Montjoye, Y. A. (2023). Did the neurons read your book? document-level membership inference for large language models. 33rd USENIX Security Symposium (USENIX Security 2024).
- [2] **Meeus*, M.**, Shilov*, I., Faysse, M., & de Montjoye, Y. A. Copyright Traps for Large Language Models. In Forty-first International Conference on Machine Learning (ICML 2024).
- [3] **Meeus*, M.**, Guepin*, F., Crețu, A. M., & de Montjoye, Y. A. (2023, September). Achilles' heels: vulnerable record identification in synthetic data publishing. In *European Symposium on Research in Computer Security* (ESORICS 2023).
- [4] Guépin*, F., **Meeus*, M.**, Crețu, A. M., & de Montjoye, Y. A. (2023, September). Synthetic is all you need: removing the auxiliary data assumption for membership inference attacks against synthetic data. In *European Symposium on Research in Computer Security* (DPM Workshop at ESORICS 2023).
- [5] **Meeus, M.**, Jain, S., & de Montjoye, Y. A. (2023). Concerns about using a digital mask to safeguard patient privacy. *Nature Medicine*, 29(7), 1658-1659.
- [6] Meeus, M., Shilov, I. , Jain, S., Faysse, M., Rei, M., & de Montjoye, Y. A. (2024). SoK: Membership Inference Attacks on LLMs are Rushing Nowhere (and How to Fix It). IEEE Conference on Secure and Trustworthy Machine Learning (SaTML 2025)
- [7] Shilov*, I., **Meeus*, M.**, & de Montjoye, Y. A. (2024). The Mosaic Memory of Large Language Models. [*ArXiv preprint*](#).
- [8] Guépin, F., Krčo, N., **Meeus, M.**, & de Montjoye, Y. A. (2024). Lost in the Averages: A New Specific Setup to Evaluate Membership Inference Attacks Against Machine Learning Models. [*ArXiv preprint*](#).
- [9] **Meeus, M.**, Wutschitz, L., Zarella-Beguelin, S., Tople, S. & Shokri R. (2024). The Canary's Echo: Auditing Privacy Risks of LLM-Generated Synthetic Text. In Forty-second International Conference on Machine Learning (ICML 2025).
- [10] **Meeus*, M.**, Rathé*, A., Remy, F., Delobelle, P., Decorte, J. & Demeester, T. (2024). ChocoLlama: Lessons Learned From Teaching Llamas Dutch. [*ArXiv preprint*](#).
- [11] Yang, X., Stevanoski, B., **Meeus, M.**, & de Montjoye, Y. A. (2025). Alignment Under Pressure: The Case for Informed Adversaries When Evaluating LLM Defenses. [*ArXiv preprint*](#).
- [12] Hayes, J., Shumailov, I., Choquette-Choo, C. A., Jagielski, M., Kaissis, G., Lee, K., ... & Cooper, A. F. (2025). Strong Membership Inference Attacks on Massive Datasets and (Moderately) Large Language Models. [*ArXiv preprint*](#).
- [13] Meeus, M., Shilov, I., Kaissis, G., & de Montjoye, Y. A. (2025). Counterfactual Influence as a Distributional Quantity. [*ICML workshop*](#).

Skillset

Technical: Excellent proficiency in AI, Machine Learning, Data Science, Scientific Computing in Python (mainly Pytorch). Experience with cloud computing on AWS, GCloud and Azure. Further proficient in multi-GPU training of large AI models, Docker, Kubernetes, Git, SQL, R, MATLAB.

Languages: Dutch (native), English (fluent), French (basic), German (basic)