

Yann HICKE

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EDUCATION

Cornell University

Ithaca, USA

Jan 2022 - May 2024

- Master of Science, Computer Science
- Main courses: *Reinforcement Learning, Natural Language Processing, Machine Learning in Feedback Systems, Deep Learning, Principles of Large-Scale Machine Learning Systems, Practicum in AI, Deep Probabilistic and Generative Models, Advanced Language Technologies, Operating Systems, Software Engineering*

Cornell University

Ithaca, USA

Aug 2014 - May 2015

- Master of Engineering, Operations Research and Information Engineering
- Main courses: *Statistical Data Mining, Stochastic Processes, Linear Optimization*

École Nationale Supérieure des Mines de Nancy

Nancy, France

Sep 2012 - May 2014

- Bachelor of Science in Applied Mathematics & Industrial Engineering
- Main courses: *Modeling and Forecasting, Algorithmics, Discrete Optimization*

Lycée Sainte-Geneviève - #1 French prep course in Mathematics, Physics and Chemistry

Versailles, France

Sep 2009 - Jul 2012

- 3-year advanced program leading to nationwide entrance examinations to France's Grandes Écoles for scientific studies

SKILLS & KNOWLEDGE

Technical skills Python, Pytorch, Scikit-Learn, Git, Huggingface, Docker, AWS, SQL, SLURM

EXPERIENCE

Multimodal AI Research Intern – Educational Testing Service

Ithaca, USA

Mar 2022 – Mar 2023

- Developed a predictive model for stress detection in a learning environment

Research Assistant – Massachusetts Institute of Technology

Ithaca, USA

Mar 2022 – Mar 2023

- Worked on research using LLMs to solve undergraduate exam questions

Research Assistant – CoachEra+

Ithaca, USA

Jan 2022 – May 2022

- Developed a coaching app for e-learners available on Android and iOS

Actor – Theatre

New York, USA

Sept 2016 – Jul 2020

- Toured schools in the Bronx to bring theatre to underserved communities
- M.F.A equivalent in Acting, Stella Adler, 3-year full-time conservatory program

Junior Consultant – Ecosys Group

Paris, France

Sep 2015 - Mar 2016

- Built a business model and carried out market research for a startup in the H2 sector
- Designed a competitive intelligence and data analysis system using Neo4j

PUBLICATION

- *Bias in Large Language Models in Education: Sources, Measures, and Mitigation Strategies.* Lee et al. *In Progress*
- *ChaTA: Towards an Intelligent Question-Answer Teaching Assistant using Open-Source LLMs.* Hicke et al. *Neurips 23, Workshop*
- *Systematic Review of Adaptive Math Learning Tools for Elementary School Students and Limitations for Students with Disabilities.* Smolansky et al. *Submitted*
- *Assessing the efficacy of large language models in generating accurate teacher responses.* Hicke et al. *ACL 23, Workshop*
- *Automated Essay Scoring in Argumentative Writing: DeBERTeachingAssistant.* Hicke et al. *LAK' 23, Workshop*

- *A Dataset for Learning University STEM Courses at Scale and Generating Questions at a Human Level. Drori et al.* *EAAI 23*
- *From Human Days to Machine Seconds: Automatically Answering and Generating Machine Learning Final Exams. Drori et al.* *KDD 23*