

## Yann HICKE

Contact information: <https://yannhicke.github.io/>

### EDUCATION

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#### 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 - 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

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

### EXPERIENCE

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#### Graduate Teaching Assistant – Cornell University

*Ithaca, USA*

Jan 2023 – Present

- CS 4789, Introduction to Reinforcement Learning
- CS 4780, Introduction to Machine Learning

#### 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

### PUBLICATIONS

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- *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
- *Human Evaluation of Text-to-Image Models on a Multi-Task Benchmark.* Petsiuk et al. Neurips 22, Workshop