Yann Hicke

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EDUCATION		
M.S. Computer Science, Cornell University		(exp.) 2024
• Advised by Wen Sun and Rene Kizilcec		
M.Eng. Operations Research and Information Engineering, Cornell University		2015
B.S. Applied Mathematics and Industrial Engineering, Mines Nancy		2014

COURSEWORK

Reinforcement Learning, Advanced Reinforcement Learning, Natural Language Processing, Machine Learning in Feedback Systems, Deep Learning, Principles of Large-Scale Machine Learning Systems, Advanced Artificial Intelligence, Deep Probabilistic and Generative Models, Advanced Language Technologies, Learning Analytics, Operating Systems, Software Engineering

RESEARCH EXPERIENCE

Research Assistant, Stanford University — May 2023–Present
Supervised by Emma Brunskill and Dora Demszky
• Developing a contextual bandit algorithm for automatic feedback for teachers

Multimodal AI Research Intern, Educational Testing Service AI Labs — Jun 2023–Aug 2023
Supervised by Chee Wee (Ben) Leong and Andrew Emerson
• Developed a predictive model for stress detection in a learning environment

Research Assistant, Massachusetts Institute of Technology — Mar 2022–Mar 2023
Supervised by Iddo Drori
• Worked on research using LLMs to solve undergraduate exam questions

Research Software Engineer, Cornell University — Jan 2022–May 2022
Assisted Ji Yong Cho, supervised by Rene Kizilcec
• Created an educational coaching application for online learners (iOS and Android) designed to implement strategies for reducing learner dropout rates

TEACHING

Graduate Teaching Assistant, Cornell University — Jan 2023 – Present
• CS 4789, Introduction to Reinforcement Learning
• CS 4780, Introduction to Machine Learning

PROFESSIONAL EXPERIENCE

Actor, Theatre — May 2016–Jul 2020
• Fully committed to didactic theatre

Junior Analyst, Ecosys Group — Sep 2015–Mar 2016
• Helped clients in the CleanTech Industry define strategic projects

SKILLS

Python, Pytorch, Scikit-Learn, Git, Huggingface, Docker, AWS, SQL, SLURM, C, C++

AWARDS

Winner, CMU Gen AI Education and Future of Work Hackathon — Jun 2023–Aug 2023
• Won $20k as part of an LLM Hackathon hosted by Carnegie Mellon University

ACADEMIC SERVICE

• Reviewer: Neurips GAIED 2023, AAAI2024 AI for Education
• Student volunteer: Learning at Scale 2022

PUBLICATIONS

[1] Yann Hicke*, Anmol Agarwal*, Christina Ma*, Paul Denny, "ChaTa: Towards an Intelligent Question-Answer Teaching Assistant using Open-Source LLMs", *NeurIPS'23 Workshop: Generative AI for Education (GAIED), 2023* [paper]

[2] Yann Hicke, Abhishek Masand, Wentao Guo, Tushaar Gangavarapu, "Assessing the efficacy of large language models in generating accurate teacher responses", *ACL, Innovative Use of NLP for Building Educational Applications Workshop, 2023* [paper]

[3] Yann Hicke, Tonghua Tian, Karan Jha, Frank Kim, "Automated Essay Scoring in Argumentative Writing: DeBERTeachingAssistant", *LAK'23: Workshop on Partnerships for Cocreating Educational Content, 2023* [paper]

[4] Iddo Drori, ..., Yann Hicke, ..., Madeleine Udell, "From Human Days to Machine Seconds: Automatically Answering and Generating Machine Learning Final Exams", International Conference on Knowledge Discovery and Data Mining (KDD), 2023 [paper]

[5] Iddo Drori, ..., Yann Hicke, ..., Armando Solar-Lezama, "A dataset for learning university STEM courses at scale and generating questions at a human level", Educational Advances in Artificial Intelligence (EAAI), 2023 [paper]

[6] Vitali Petsiuk, ..., Yann Hicke, ..., Iddo Drori, "Human Evaluation of Text-to-Image Models on a Multi-Task Benchmark", NeurIPS Workshop on Human Evaluation of Generative Models (HEGM). Oral, 2022 [paper]