Yann Hicke

yann.hicke@gmail.com | https://yannhicke.github.io

EDUCATION	Ph.D. Computer Science, Cornell UniversityAdvised by Claire Cardie and Rene Kizilcec	(exp.) 2028
	M.Eng. Operations Research and Information Engineering, Cornell Universit	y 2015
	B.S. Applied Mathematics and Industrial Engineering, Mines Nancy	2014
	2.500 1.5pp.100 1.2mmos and 2.mmos 1.mmos 1.mmos	2011
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	Research Assistant, Stanford University	May 2023–Jul 2024
EXPERIENCE	Supervised by Emma Brunskill and Dora Demszky	111ay 2025 3ai 2021
	Developed 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	I 2022 M 2022
	Research Software Engineer, Cornell University Assisted Ji Yong Cho, supervised by Rene Kizilcec	Jan 2022–May 2022
	• Created an educational coaching application for online learners (iOS and Android) designed to imple-	
	ment strategies for reducing learner dropout rates	ora, acorgina to impre
TEACHING	Graduate Teaching Assistant, Cornell University	Jan 2023 – Present
	 CS 4789, Introduction to Reinforcement Learning 	
	 CS 4780, Introduction to Machine Learning 	
Professional	Software Engineer Intern, Hita AI	May 2024–Aug 2024
EXPERIENCE	Actor, Theatre	May 2016–Jul 2020
	Junior Analyst, Ecosys Group	Sep 2015–Mar 2016
_		
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	у
ACADEMIC	• Reviewer: Neurips GAIED 2023, AAAI2024 AI for Education	
SERVICE	• Student volunteer: Learning at Scale 2022	

PUBLICATIONS

- [1] Y Hicke*, J Yun*, M Olson, D Demszky, "Enhancing Tutoring Effectiveness Through Automated Feedback: Preliminary Findings from a Pilot Randomized Controlled Trial on SAT Tutoring" *Proceedings of the Eleventh ACM Conference on Learning* © *Scale*, 422-426 [paper]
- [2] J Lee, Y Hicke, R Yu, C Brooks, RF Kizilcec, "The life cycle of large language models in education: A framework for understanding sources of bias" *British Journal of Educational Technology 55 (5)*, 1982-2002 [paper]
- [3] 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]
- [4] 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]
- [5] 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]
- [6] 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]
- [7] 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]
- [8] 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]