

JACKSON HARMON

Machine Learning Scientist

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PROFILE

I'm a master's student studying at the University of Tübingen, interested in developing the next generation of machine learning models. My research focuses on understanding continual learning and how post-training processes affect pretrained knowledge in large language models.

EDUCATION

University of Tübingen <i>Master of Science in Machine Learning</i>	Tübingen, Germany 2023 – Present
Georgia Institute of Technology <i>Bachelor of Science in Computer Science, Highest Honors</i> <ul style="list-style-type: none">Specializations: Machine Learning and Theory	Atlanta, GA 2017 – 2021
Ludwig Maximilian University of Munich <i>Study Abroad - Informatik</i>	Munich, Germany 2019 – 2020
Spartanburg High School <i>High School Diploma, Top 5 of Class</i>	Spartanburg, SC 2014 – 2017

RESEARCH & PUBLICATIONS

Mapping Post-Training Forgetting in Language Models at Scale	2025
<ul style="list-style-type: none">Research quantifying how post-training alters pretrained knowledge in LMs through sample-wise forgetting metricsDemonstrated that domain-continual pretraining induces moderate forgettingShowed RL/SFT yields moderate-to-large backward transfer on math and logic tasksFound that model merging doesn't reliably mitigate forgettingProject website: post-forget.github.io	

EXPERIENCE

Software Engineer <i>NCR Corporation</i>	2021 – 2023 Atlanta, GA
<ul style="list-style-type: none">Code-owner of Java and Go microservices deployed across companies worldwideLed inter-team and customer-facing weekly meetings to coordinate feature developmentImplemented scalable production backend services	
Machine Learning Intern <i>Hawque</i>	2018 Atlanta, GA (Remote)
<ul style="list-style-type: none">Developed a facial recognition system with a remote international teamImplemented user-item collaborative filtering to match users and providers based on preferences and historyPresented and demonstrated results to stakeholders	
Engineering Intern <i>Perceptive Solutions</i>	2016 Greenville, SC
<ul style="list-style-type: none">Developed a framework for modeling interactions between various magnetsWrote a data extrapolation and visualization program compatible with the modeling framework	

SELECTED PROJECTS

ML Models & Algorithms Implementation <i>Python, NumPy, PyTorch</i>	2024
<ul style="list-style-type: none">• On-going collection of machine learning models and algorithms implemented from scratch for learning• Includes neural networks, optimization algorithms, and probabilistic models	
Physics-Informed Machine Learning <i>Python, PyTorch</i>	2024
<ul style="list-style-type: none">• Course project exploring physics-informed neural networks (PINNs)• Applied PINNs to solving differential equations with physical constraints	
Scaling Laws <i>Python, PyTorch, Weights and Biases</i>	2024
<ul style="list-style-type: none">• Research project predicting scaling laws for open weight language models, investigating Kaplan and Chinchilla scaling law behaviors and their implications for model training efficiency	
Photo/Video Blemish Remover <i>Python, TensorFlow, OpenCV</i>	2018
<ul style="list-style-type: none">• Developed facial recognition and blemish detection tool using TensorFlow and OpenCV• Deployed as photo filter application	
Reconfigurable Computer <i>FPGA, Hardware Design</i>	2014
<ul style="list-style-type: none">• FPGA-based reconfigurable computer design, featured on Upverter Blog• Open-source hardware project with multiple forks	
HarmonsOS - Hobby Operating System <i>x86 Assembly, C</i>	2013
<ul style="list-style-type: none">• 32-bit operating system with bootloader, command line, and hard drive support	

TECHNICAL SKILLS

Languages: Python, C++, Java, Go, CUDA, Bash, x86 Assembly, SQL, JavaScript

ML/AI Frameworks: PyTorch, LightEval, Hugging Face, Mergekit, TensorFlow, NumPy, scikit-learn

Tools & Platforms: Git, SLURM, Emacs, Weights & Biases, ROS2, Docker, Kubernetes, Linux, AWS, LaTeX

Other Skills: German (B2 level)