

Laerdon Kim

<https://laerdon.github.io/>
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Education

Cornell University <i>Mathematics and Computer Science. GPA: 4.18/4.0</i>	Aug 2024 – Expected May 2027 <i>Ithaca, NY</i>
Phillips Academy Andover <i>GPA: 5.75/6.0. Dean's List.</i> Harold J. Sheridan Award for Athletics. Martin Luther King Jr. Award.	Sep 2020 – Jun 2024 <i>Andover, MA</i>

Research Experience

Researcher <i>Cornell University, CornellNLP</i>	Jun 2025 – Aug 2025 <i>Ithaca, NY</i>
<ul style="list-style-type: none">– Co-authored EMNLP 2025 Main paper exposing a limitations of state-of-the-art lexical semantic change detection methods and proposing a new evaluation metric based on performance “in the wild.”– Designed clustering-based evaluation methods for semantic change, reducing error rates in discovery tasks.– Conducted paper replication study on false positive suppression method proposed by Liu et al., 2021.	
Researcher <i>Cornell University, Zissou Lab</i>	Sep 2024 – Present <i>Ithaca, NY</i>
<ul style="list-style-type: none">– Developing models for forecasting online conversational dynamics and toxicity escalation, using “pivotal moments” as supervisory signals.– Solo-authored NAACL 2025 CLPsych Workshop paper; built evaluation pipeline for LLM span identification of self-states in mental health data. System ranked 3rd/14. Automated training workflows with Bash scripting on Linux HPC clusters.– Designed PIVDelay, a novel fine-tuning technique reducing false positives by 13% in toxicity forecasting. Presented results at the BURE Symposium.	
Visiting Researcher <i>Illinois Institute of Technology</i>	Jun 2024 – Aug 2024 <i>Chicago, IL</i>
<ul style="list-style-type: none">– Implemented custom CUDA fused attention and LayerNorm kernels for diffusion models, achieving 1.2× inference speedup.– Explored z-score and absolute-value threshold outlier masking on LLaMA 2, lowering perplexity by 6% and memory use by 13%.– Re-implemented SmoothQuant and LLM-AWQ on OPT-8B for text completion inference.	

Other Experience

Academic Team Lead <i>Association of Computer Science Undergraduates</i>	Sep 2024 – Present <i>Ithaca, NY</i>
<ul style="list-style-type: none">– Lead Cornell CS Reading Group (~10 students), covering ML theory papers and fostering research-oriented discussion.– Organize academic events for hundreds of undergraduates in the CS community.	

Maintainer	Sep 2024 – Present
<i>ConvoKit (Open-source NLP Package)</i>	
<ul style="list-style-type: none"> – Built modular wrapper for HuggingFace/custom models; modernized backend forecasting with Docker; wrote 6 demo notebooks. – Engineered CI/CD pipelines, added 4 datasets, reviewed and merged PRs. 	
Outreach Intern	Jul 2023 – Sep 2023
<i>Office of State Senator Robert Martwick</i>	<i>Chicago, IL</i>
<ul style="list-style-type: none"> – Led census-based canvass across 87 neighborhoods. – Used Python, NGPVan, and VoteBuilder to expand access to social services for 135k constituents. 	
Software Engineering Intern	May 2023 – Aug 2023
<i>Innocuous AI</i>	<i>Remote</i>
<ul style="list-style-type: none"> – Developed startup website and branded landing page in React/Node.js, reducing latency by 40% with bundled assets. – Designed custom visual assets in Figma and Photoshop for VC presentations. 	

Publications & Presentations

Khonzoda Umarova, Lillian Lee, Laerdon Kim. *Current semantic-change quantification methods struggle with semantic change discovery in the wild.* EMNLP 2025 Main.

Laerdon Kim. *A Baseline for Self-state Identification and Classification in Mental Health Data: CLPsych 2025 Task.* NAACL CLPsych Workshop. PI: Cristian Danescu-Niculescu-Mizil. arXiv:2504.14066

Laerdon Kim, Jenny Jin, Ajahla Jefferson, Tina Zeng, Brian Chica-Herrera. “Social Mobility in the Mission Hill/Roxbury Area.” Opportunity Insights Lab, Harvard University, May 2024.

Laerdon Kim. “Altruism and Our Kinship Crisis.” TEDx Presentation, Andover, MA, Apr 2024.

Honors

University of Oxford Human-AI Interaction Lab Cosmos Grantee	2025
<i>Cosmos Institute</i>	\$4,500 awarded
Bowers-CIS Undergraduate Research Experience Fellow	2025
<i>Cornell University</i>	\$7,000 awarded
Milstein Scholar in Technology and Humanity	2024
<i>Cornell University</i>	
1st Place, MIT AI+Education Hackathon	2024
<i>MIT</i>	
National Latin Exam, Summa Cum Laude	2022
<i>American Classical League</i>	

Skills

Languages: Python (proficient), Java (proficient), Swift (proficient), C++ (intermediate),
HTML/JS/TS/CSS (proficient)

Tools: PyTorch, TensorFlow, CUDA, Supabase, AWS, SQL, PostgreSQL, React, Vue, Tailwind,
Flask, Docker, Kubernetes, Git, Linux

Familiar with common ML libraries: scikit-learn, pandas, numpy, seaborn, huggingface
transformers