

# Laerdon Kim

<https://laerdon.github.io/>  
lyk25@cornell.edu

## Education

---

<b>Cornell University</b> <i>Mathematics and Computer Science. GPA: 4.13/4.0</i>	Aug 2024 – Expected May 2027 <i>Ithaca, NY</i>
<b>Phillips Academy Andover</b> <i>GPA: 5.75/6.0. Dean's List.</i>	Sep 2020 – Jun 2024 <i>Andover, MA</i>
<b>Harold J. Sheridan Award for Athletics. Martin Luther King Jr. Award.</b>	

## Research Experience

---

<b>Researcher</b> <i>Cornell University, CornellNLP</i>	Jun 2025 – Aug 2025 <i>Ithaca, NY</i>
<ul style="list-style-type: none"><li>– 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.”</li><li>– Designed clustering-based evaluation methods for semantic change, reducing error rates in discovery tasks.</li><li>– Conducted paper replication study on false positive suppression method proposed by Liu et al., 2021.</li></ul>	

<b>Researcher</b> <i>Cornell University, Zissou Lab</i>	Sep 2024 – Present <i>Ithaca, NY</i>
<ul style="list-style-type: none"><li>– Developing models for forecasting online conversational dynamics and toxicity escalation, using “pivotal moments” as supervisory signals.</li><li>– 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.</li><li>– Designed PIVDelay, a novel fine-tuning technique reducing false positives by 13% in toxicity forecasting. Presented results at the BURE Symposium.</li></ul>	

<b>Visiting Researcher</b> <i>Illinois Institute of Technology</i>	Jun 2024 – Aug 2024 <i>Chicago, IL</i>
<ul style="list-style-type: none"><li>– Implemented custom CUDA fused attention and LayerNorm kernels for diffusion models, achieving 1.2× inference speedup.</li><li>– Explored z-score and absolute-value threshold outlier masking on LLaMA 2, lowering perplexity by 6% and memory use by 13%.</li><li>– Re-implemented SmoothQuant and LLM-AWQ on OPT-8B for text completion inference.</li></ul>	

## Other Experience

---

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

**Maintainer** Sep 2024 – Present  
*ConvoKit (Open-source NLP Package)*

- 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  
*Office of State Senator Robert Martwick* Chicago, IL

- 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  
*Innocuous AI* Remote

- 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  
*Cosmos Institute* \$4,500 awarded

**Bowers-CIS Undergraduate Research Experience Fellow** 2025  
*Cornell University* \$7,000 awarded

**Milstein Scholar in Technology and Humanity** 2024  
*Cornell University*

**1st Place, MIT AI+Education Hackathon** 2024  
*MIT*

**National Latin Exam, Summa Cum Laude** 2022  
*American Classical League*

## *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