

# Grace C. Kim

4th-year BS/MS Student at Georgia Tech ([HCI](#) + [ML](#))

My research focuses on improving the interpretability and trustworthiness of ML models. I develop [interactive visualization tools](#) for visually analyzing model decision-making, and [interpretability methods](#) for understanding and controlling model behavior.

✉ [gracekim3@gatech.edu](mailto:gracekim3@gatech.edu)  
🏠 [gracekimcy.github.io](https://gracekimcy.github.io)

🎓 [Google Scholar](#)  
📄 [CV PDF](#)

## Education

Aug. 2025 — May 2026	<b>M.S. in Computer Science</b> Georgia Institute of Technology, Atlanta, GA Advisor: Duen Horng (Polo) Chau , Co-advisor: Mark Riedl Concentration in Machine Learning 🏆 <a href="#">Stamps President's Scholarship (full-ride merit scholarship)</a>
Aug. 2022 — May 2025	<b>B.S. in Computer Science</b> Georgia Institute of Technology, Atlanta, GA Thesis: <i>Transformer Explainer: Interactive Visual Learning of LLM Transformers</i> Advisor: Duen Horng (Polo) Chau , Co-advisor: Betsy DiSalvo (Mentor: Annabel Rothschild) Concentrations in Artificial Intelligence and Theory, Overall GPA: 3.9/4.0, Highest Honors 🏆 <a href="#">Stamps President's Scholarship (full-ride merit scholarship)</a>
Summer 2023	<b>Berlin Summer Program</b> Technische Universität Berlin, Germany Study abroad program by Georgia Tech College of Computing

## Research Experience

Jan. 2024 — Present	<b>Georgia Institute of Technology</b> , Atlanta, GA <i>Research Assistant (now Graduate Assistant), Polo Club of Data Science</i> Advisor: Duen Horng (Polo) Chau Study the intersection of machine learning, human-computer interaction, and data visualization. Published at EMNLP 2025, AAAI 2025, and IEEE VIS 2024.
May 2025 — Present	<b>Georgia Institute of Technology</b> , Atlanta, GA <i>Research Assistant, Entertainment Intelligence and Human-Centered AI Labs</i> Advisor: Mark Riedl Study explainable AI and mechanistic interpretability.
May 2024 — Aug. 2024	<b>CISPA Helmholtz Center for Information Security</b> , Saarbrücken, Germany <i>DAAD RISE Research Intern, SprintML Lab</i> Advisor: Adam Dziedzic, Franziska Boenisch Studied memorization in CLIP models. Published at ICLR 2025.
Aug. 2023 — Oct. 2024	<b>Georgia Institute of Technology</b> , Atlanta, GA <i>Research Assistant, Culture and Technology Lab</i> Advisor: Betsy DiSalvo , Mentor: Annabel Rothschild Studied critical data studies and responsible AI. Published at AIES 2024.

## Honors and Awards

2022	<b>Stamps President's Scholarship</b> , Georgia Tech 4-year full-ride merit scholarship with \$15,000 in extracurricular funding awarded to the top 1% of applicants (40 students) to Georgia Tech
2024	<b>Best Poster</b> , IEEE VIS For "Transformer Explainer: Interactive Learning of Text-Generative Models"
2025	<b>Best Submission</b> , Workshop on Visualization for AI Explainability at IEEE VIS For Transformer Explainer
2024	<b>DAAD RISE Scholarship</b> , German Federal Foreign Office Selected as one of 320 scholarship recipients from 2,358 applicants to conduct a summer research internship in Germany

- 2025

President's Undergraduate Research Awards Travel Award, Georgia Tech  
For "Transformer Explainer: Interactive Learning of Text-Generative Models"
- 2024

President's Undergraduate Research Awards Travel Award, Georgia Tech  
For "What's Your Stake in Sustainability of AI?: An Informed Insider's Guide"

# Publications

- 4

**Transformer Explainer: Interactive Learning of Text-Generative Models**  
Aeree Cho\*, Grace C. Kim\*, Alexander Karpekov\*, Alec Helbling, Zijie J. Wang, Seongmin Lee, Benjamin Hoover, Duen Horng (Polo) Chau  
*IEEE Visualization Conference (VIS Poster). 2024., AAAI Conference on Artificial Intelligence (AAAI Demo). 2025.*  
[▶ Demo](#) [📄 PDF](#) [🎥 Recording](#) [🔗 Code](#) [📖 BibTeX](#) 🏆 **Best Poster** \*Authors contributed equally  
  
410,000+ users across 180+ countries, 6,000+ GitHub stars  
#1 paper of the day on Hugging Face  
Taught at top universities (e.g., MIT, Columbia, University of Toronto) and in Georgia Tech CSE 6242 Data and Visual Analytics (250-300 students per semester)
- 3

**Interpretation Meets Safety: A Survey on Interpretation Methods and Tools for Improving LLM Safety**  
Seongmin Lee, Aeree Cho, Grace C. Kim, ShengYun Peng, Mansi Phute, Duen Horng (Polo) Chau  
*Conference on Empirical Methods in Natural Language Processing (EMNLP Main). 2025.*  
[📄 PDF](#) [📖 BibTeX](#)
- 2

**Captured by Captions: On Memorization and its Mitigation in CLIP Models**  
Wenhao Wang, Adam Dziedziec, Grace C. Kim, Michael Backes, Franziska Boenisch  
*International Conference on Learning Representations (ICLR). 2025.*  
[📄 PDF](#) [📖 BibTeX](#)
- 1

**What's Your Stake in Sustainability of AI?: An Informed Insider's Guide**  
Grace C. Kim, Annabel Rothschild, Carl DiSalvo, Betsy DiSalvo  
*AAAI/ACM Conference on AI, Ethics, and Society (AIES). 2024.*  
[📄 PDF](#) [📖 BibTeX](#)

# Grants and Funding

- 2025

**Google Gift (\$75,000)**  
Co-PIs: Duen Horng (Polo) Chau  
Co-first authored a proposal with one graduate student resulting in a \$75,000 unrestricted gift from Google

# Conference Travels & Presentations

- 2025

IEEE Visualization Conference (VIS) 2025
- 2025

AAAI Conference on Artificial Intelligence (AAAI) 2025  
For "Transformer Explainer: Interactive Learning of Text-Generative Models"
- 2024

AAAI/ACM Conference on AI, Ethics, and Society (AIES) 2024  
For "What's Your Stake in Sustainability of AI?: An Informed Insider's Guide"
- 2024

IEEE Visualization Conference (VIS) 2024  
For "Transformer Explainer: Interactive Learning of Text-Generative Models"

# Teaching

- Spring 2023

**Teaching Assistant**  
*Georgia Institute of Technology, Atlanta, GA*  
Object-Oriented Programming (CS 1331), Instructor: Richard Landry  
Led weekly recitation classes for 50 students, held weekly office hours, and created and graded course materials for a course with 800 students enrolled.

# Service

- May 2025 — Present

**Founding Member**  
*Georgia Institute of Technology, Atlanta, GA*  
Digital Equity & Empowerment Project  
Design and lead workshops on AI safety and responsible use for Atlanta-based youths

**Web Developer & Administrator**

*Georgia Institute of Technology, Atlanta, GA*

Stamps Scholars National Convention

Managed website development and administration for a convention with 700 attendees from 40 schools

## References

**Dr. Polo Chau**, Professor

School of Computational Science and Engineering

*Georgia Institute of Technology*

[cc.gatech.edu/~dchau/](https://cc.gatech.edu/~dchau/)

**Dr. Mark Riedl**, Professor

School of Interactive Computing

*Georgia Institute of Technology*

[eilab.gatech.edu/mark-riedl.html](https://eilab.gatech.edu/mark-riedl.html)

**Dr. Annabel Rothschild**, Assistant Professor

Computer Science

*Bard College*

[annabelrothschild.com/](https://annabelrothschild.com/)