







Kevin Li

My interests encompass the intersection of **machine learning and human-computing interaction** and **deep learning**. I enjoy working on projects that utilize deep learning architectures or aim to interpret and understand how machine learning models learn.

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 CV PDF

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 Google Scholar

Education

Aug. 2019 - Present **B.S. in Computer Science**
Georgia Institute of Technology, Atlanta, GA
Overall GPA: 4.00/4.00

Aug. 2019 - Present **B.S. in Biomedical Engineering**
Georgia Institute of Technology, Atlanta, GA
Overall GPA: 4.00/4.00

Honors and Awards

- Fall 2022 **CIKM 2022 NSF Travel Award**
Selected to receive the CIKM 2022 NSF Travel Award
- Fall 2022 **President's Undergraduate Research Award (PURA)**
Selected to receive Georgia Tech's PURA award for work on Argo Scholar
- Summer 2022 **First Place, Qualcomm Intern Hackathon**
1st place at Qualcomm's intern hackathon for creating information propagation framework for autonomous vehicles
- Spring 2022 **Undergraduate Teaching Assistant of the Year, Georgia Institute of Technology**
Selected as one of three undergraduate teaching assistants to be awarded the institute-wide award for TAing CS4641/7641 Machine Learning
- Spring 2022 **Undergraduate Teaching Assistant of the Year, College of Computing**
Selected as UTA of the year for the CSE school under the College of Computing for TAing CS4641/7641 Machine Learning
- Fall 2021 **Best Poster Honorable Mention, IEEE VIS**
For "Argo Scholar: Interactive Visual Exploration of Literature in Browsers"
- Fall 2019 **Winner, HackGT6 Hackathon**
Winner of "Marketplace of the Future" challenge by Anthem for work on accessing medicine availability based on insurance information

Academic Research Experience















- Aug. 2020 - Present **Georgia Institute of Technology, Atlanta, GA**
Undergraduate Research Assistant, Polo Club of Data Science
Advisor: Duen Horng (Polo) Chau
Conducting research in machine learning, human-computer interaction, and the intersection of the two.
- Jan. 2019 - Dec. 2019 **Georgia Institute of Technology, Atlanta, GA**
Student Researcher, Laboratory for Intelligent Decision and Autonomous Robots (LIDAR) Lab
Advisor: Ye Zhao
Worked on controlling cost-effective, physical model of the human hand.

Industry Experience






- May 2022 - Aug. 2022 **Qualcomm, San Diego, CA**
Data Engineer Intern, Autonomous Driving
Designed end-to-end solution for collecting, processing, and querying of autonomous driving data for DL training. Developed Cloud Run Python server using FastAPI that connected to Google Cloud databases along with clients
- May 2021 - July 2021 **Amazon Web Services, Seattle, WA**
Software Development Engineer Intern, Tax Team
Designed workflow to improve existing error identification system that validates all tax calculations for AWS users. Implemented in Java, Rails, and internal tools, tested using JUnit and Mockito, and performed integration testing. Resolved pre-existing system issues and helped plan long-term solutions for improving root cause analysis
- July 2020 - Dec. 2020 **Georgia Tech Office of Information and Technology, Atlanta, GA**
Team Lead and Web Developer,
Led standups, managed hiring for the fall, and engaged with 3 clients regarding content deployment strategy.

Publications

Poster

- P4 **Evaluating Robustness of Vision Transformers on Imbalanced Datasets**
Kevin Li, Rahul Duggal, Duen Horng Chau
Association for the Advancement of Artificial Intelligence (AAAI). Washington DC, USA, 2023.
[→ More coming soon!](#)  [Project](#)
- P3 **NeuroMapper: In-browser Visualizer for Neural Network Training**
Zhiyan Zhou, Kevin Li, Haekyu Park, Megan Dass, Austin Wright, Nilaksh Das, Duen Horng Chau
IEEE VIS: Visualization & Visual Analytics (IEEE VIS). Oklahoma City, OK, 2022.
[Project](#)  [PDF](#)  [Poster](#)  [Code](#)  [BibTeX](#)
- P2 **Evaluation of Argo Scholar with Observational Study**
Kevin Li, Haoyang Yang, Evan Montoya, Anish Upadhayay, Zhiyan Zhou, Jon Saad-Falcon, Duen Horng Chau
IEEE VIS: Visualization & Visual Analytics (IEEE VIS). Oklahoma City, OK, 2022.
[Project](#)  [PDF](#)  [Poster](#)  [Code](#)  [BibTeX](#)
- P1 **Argo Scholar: Interactive Visual Exploration of Literature in Browsers**
Kevin Li, Haoyang Yang, Anish Upadhayay, Zhiyan Zhou, Jon Saad-Falcon, Duen Horng Chau
IEEE VIS: Visualization & Visual Analytics (IEEE VIS). Virtual, 2021.
[Project](#)  [PDF](#)  [Poster](#)  [Code](#)  [BibTeX](#)  [Best Poster, Honorable Mention](#)

Demo

- D1 **Visual Exploration of Literature with Argo Scholar**
Kevin Li, Haoyang Yang, Evan Montoya, Anish Upadhayay, Zhiyan Zhou, Jon Saad-Falcon, Duen Horng Chau
ACM International Conference on Information and Knowledge Management (CIKM). Atlanta, GA, 2022.
[Project](#)  [PDF](#)  [Poster](#)  [Code](#)  [BibTeX](#)  [DOI](#)

Press

- Apr. 2022 "Students, Faculty Finish the Year Strong with Awards Ceremonies," Georgia Tech, College of Computing
- Apr. 2022 "2022 TA and Future Faculty Awards Day," Georgia Tech, Center for Teaching and Learning
- Oct. 2021 "Former Student Earns Top Award at Premier Visualization Conference," Georgia Tech, College of Computing
- June 2021 "New NVIDIA Partnership Bridges Education Gap for Data Science and Machine Learning," Georgia Tech, College of Computing

Teaching

- Spring 2021 - Present **Co-Head Teaching Assistant**
Georgia Institute of Technology, Atlanta, GA
Machine Learning (CS 4641/7641), Instructor: Mahdi Roozbahani, Nakul Gopalan
Brainstormed, delegated, and implemented course improvements and oversaw assignment creation and checks. Wrote and graded ML theory and programming assignments for grad and undergrad classes with 750+ students in total. Helped guide, provide feedback, and grade semester-long group projects focused on applying ML to various fields.
- Spring 2019 - Fall 2020 **Teaching Assistant**
Georgia Institute of Technology, Atlanta, GA
Intro Physics II (PHYS 2212), Instructor: Ed Greco
Assisted students during lab sections and debugging students' Python code during modeling assignments.

Service

- Educational Outreach**
NVIDIA Deep Learning Institute, 2021
Helped develop lecture slides and hands-on labs with included datasets and sample solutions in Python and interactive Jupyter notebook formats for the NVIDIA DLI Data Science toolkit.
- Institutional**
Georgia Tech Student Government Association (SGA) Curriculum and Classroom Practices Committee Chair, 2020-2021
Led committee of 9 in a push to update Georgia Tech's health curriculum to better suit students' and their needs. Spearheaded revamping of PLUS (Peer-Led Undergraduate Study) sessions to increase accessibility and impact.
Georgia Tech SGA Educational Enhancement Committee, 2019-2020
Revitalized health course curriculum by analyzing student feedback, benchmarking against peer institutions, and pushing forward solutions

References

- Dr. Duen Horng (Polo) Chau**, Associate Professor
School of Computational Science and Engineering
Georgia Institute of Technology
cc.gatech.edu/~dchau/
- Dr. Mahdi Roozbahani**, Lecturer
School of Computational Science and Engineering
Georgia Institute of Technology
<https://mahdi-roozbahani.github.io>
- Jake Vizzoni**, Senior Staff Software Engineer
Qualcomm
<https://www.linkedin.com/in/jake-vizzoni>