

Sunnie S. Y. Kim

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EDUCATION

- 2020–Now **Princeton University**
PhD candidate in Computer Science
Thesis committee: Olga Russakovsky (adviser), Andrés Monroy-Hernández,
Jenn Wortman Vaughan, Vera Liao, Parastoo Abtahi
Expected graduation date: May 2025
- 2019–2020 **Toyota Technological Institute at Chicago**
Visiting student advised by Greg Shakhnarovich
- 2014–2018 **Yale University**
Bachelor of Science in Statistics and Data Science
GPA 3.91/4.00, *magna cum laude*, Distinction in the Major
Senior thesis advised by John Lafferty

WORK EXPERIENCE

- 2023 **Microsoft Research FATE (Fairness, Accountability, Transparency & Ethics in AI)**
PhD research intern supervised by Jenn Wortman Vaughan and Vera Liao
- 2017–2019 **Yale Center for Environmental Law and Policy**
Data team lead for Environmental Performance Index supervised by Jay Emerson
- 2017 **Fathom Information Design**
Data analyst intern supervised by Ben Fry

HONORS, AWARDS & FELLOWSHIPS

- 2025 CHI 2025 Special Recognition for Outstanding Review (2 for Papers, 1 for LBW)
- 2024 Georgia Tech Doctoral Consortium on Responsible Computing, AI, and Society
- 2024 MIT Rising Stars in EECS Recognition ★
- 2024 Siebel Scholars Award (\$35,000) ★
- 2024 CHI 2024 Doctoral Consortium
- 2024 Princeton SEAS Travel Grant Award
- 2023 CHI 2023 Honorable Mention Award 🏆
- 2023 SIGCHI Gary Marsden Travel Award
- 2022–2025 NSF Graduate Research Fellowship (\$138,000) ★
- 2022–2023 ML Reproducibility Challenge Outstanding Reviewer Award (×2)
- 2020–2023 Women in Computer Vision Workshop Travel and Registration Award
- 2019 Yale Statistics and Data Science Certificate of Appreciation for Outstanding Dedication
- 2018 Yale Adrian Van Sinderen Book Collecting First Prize (\$1,000)
- 2016 Yale Summer Research Fellowship
- 2014–2018 Korean Presidential Science Scholarship (\$200,000) ★

PAPERS

Conference and Journal Publications (Peer-Reviewed)

- 2025 **Fostering Appropriate Reliance on Large Language Models: The Role of Explanations, Sources, and Inconsistencies**
Sunnie S. Y. Kim, Jennifer Wortman Vaughan, Q. Vera Liao, Tania Lombrozo, Olga Russakovsky
ACM Conference on Human Factors in Computing Systems (CHI)
(Featured in Microsoft's New Future of Work Report)
- 2024 **"I'm Not Sure, But...": Examining the Impact of Large Language Models' Uncertainty Expression on User Reliance and Trust**
Sunnie S. Y. Kim, Q. Vera Liao, Mihaela Vorvoreanu, Stephanie Ballard, Jennifer Wortman Vaughan
ACM Conference on Fairness, Accountability, and Transparency (FAccT)
(Featured in Axios, New Scientist, ACM showcase, Microsoft's New Future of Work Report, and the Human-Centered AI Medium publication as *Good Reads in Human-Centered AI*)
- 2023 **"Help Me Help the AI": Understanding How Explainability Can Support Human-AI Interaction**
Sunnie S. Y. Kim, Elizabeth Anne Watkins, Olga Russakovsky, Ruth Fong, Andrés Monroy-Hernández
ACM Conference on Human Factors in Computing Systems (CHI) 🏆 **Honorable Mention Award**
(Featured in the Human-Centered AI Medium publication as *CHI 2023 Editors' Choice* and invited for talks at multiple AI and HCI conference workshops)
- Humans, AI, and Context: Understanding End-Users' Trust in a Real-World Computer Vision Application**
Sunnie S. Y. Kim, Elizabeth Anne Watkins, Olga Russakovsky, Ruth Fong, Andrés Monroy-Hernández
ACM Conference on Fairness, Accountability, and Transparency (FAccT)
- Overlooked Factors in Concept-based Explanations: Dataset Choice, Concept Learnability, and Human Capability**
Vikram V. Ramaswamy, Sunnie S. Y. Kim, Ruth Fong, Olga Russakovsky
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
- 2022 **HIVE: Evaluating the Human Interpretability of Visual Explanations**
Sunnie S. Y. Kim, Nicole Meister, Vikram V. Ramaswamy, Ruth Fong, Olga Russakovsky
European Conference on Computer Vision (ECCV)
(Selected as spotlight and invited for talks at multiple AI and HCI conference workshops)
- Shallow Neural Networks Trained to Detect Collisions Recover Features of Visual Loom-Selective Neurons**
Baohua Zhou, Zifan Li, Sunnie S. Y. Kim, John Lafferty, Damon A. Clark
eLife (Journal for the biomedical and life sciences)
- 2021 **[Re] Don't Judge an Object by Its Context: Learning to Overcome Contextual Bias**
Sunnie S. Y. Kim, Sharon Zhang, Nicole Meister, Olga Russakovsky
ReScience C (Journal for reproducible replications in computational science)
- Fair Attribute Classification through Latent Space De-biasing**
Vikram V. Ramaswamy, Sunnie S. Y. Kim, Olga Russakovsky
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
(Featured in Coursera's GANs Specialization course and the MIT Press Book *Foundations of Computer Vision* and invited for talks at multiple AI conference workshops)
- Information-Theoretic Segmentation by Inpainting Error Maximization**
Pedro Savarese, Sunnie S. Y. Kim, Michael Maire, Gregory Shakhnarovich, David McAllester
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)

- 2020 **Deformable Style Transfer**
Sunnie S. Y. Kim, Nicholas Kolkin, Jason Salavon, Gregory Shakhnarovich
European Conference on Computer Vision (ECCV)
- 2019 **Which Grades Are Better, A's and C's, or all B's? Effects of Variability in Grades on Mock College Admission Decisions**
Woo-kyoung Ahn, Sunnie S. Y. Kim, Kristen Kim, Peter K. McNally
Judgment and Decision Making (Journal for the psychology of human judgment and decision making)

Workshop Papers and Extended Abstracts (Lightly Peer-Reviewed)

* indicates equal contribution

- 2025 **Portraying Large Language Models as Machines, Tools, or Companions Affects What Mental Capacities Humans Attribute to Them**
Allison Chen, Sunnie S. Y. Kim, Amaya Dharmasiri, Olga Russakovsky, Judith E. Fan
CHI Extended Abstracts (Late Breaking Work)
- Interactivity x Explainability: Toward Understanding How Interactivity Can Improve Computer Vision Explanations**
Indu Panigrahi, Sunnie S. Y. Kim*, Amna Liaqat*, Rohan Jinturkar, Olga Russakovsky, Ruth Fong, Parastoo Abtahi
CHI Extended Abstracts (Late Breaking Work)
- 2024 **Establishing Appropriate Trust in AI through Transparency and Explainability**
Sunnie S. Y. Kim
CHI Extended Abstracts (Doctoral Consortium)
- Human-Centered Explainable AI (HCXAI): Reloading Explainability in the Era of Large Language Models (LLMs)**
Upol Ehsan, Elizabeth Anne Watkins, Philipp Wintersberger, Carina Manger, Sunnie S. Y. Kim, Niels van Berkel, Andreas Riener, Mark O. Riedl
CHI Extended Abstracts (Workshop Proposal)
- Allowing Humans to Interactively Guide Machines Where to Look Does Not Always Improve Human-AI Team's Classification Accuracy**
Giang Nguyen, Mohammad Reza Taesiri, Sunnie S. Y. Kim, Anh Nguyen
CVPR Workshop on Explainable AI for Computer Vision
- 2023 **Explainable AI for End-Users**
Sunnie S. Y. Kim, Elizabeth Anne Watkins, Olga Russakovsky, Ruth Fong, Andrés Monroy-Hernández
CHI Workshop on Human-Centered Explainable AI
- 2022 **Closing the Creator-Consumer Gap in XAI: A Call for Participatory XAI Design with End-users**
Sunnie S. Y. Kim, Elizabeth Anne Watkins, Olga Russakovsky, Ruth Fong, Andrés Monroy-Hernández
NeurIPS Workshop on Human-Centered AI
- ELUDE: Generating Interpretable Explanations via a Decomposition into Labelled and Unlabelled Features**
Vikram V. Ramaswamy, Sunnie S. Y. Kim, Nicole Meister, Ruth Fong, Olga Russakovsky
CVPR Workshop on Explainable AI for Computer Vision
- 2021 **Cleaning and Structuring the Label Space of the iMet Collection 2020**
Vivien Nguyen*, Sunnie S. Y. Kim*
CVPR Workshop on Fine-Grained Visual Categorization

Technical Report (Not Peer-Reviewed)

- 2018 **Environmental Performance Index**
Zachary A. Wendling, John W. Emerson, Daniel Esty, Marc Levy, Alex de Sherbinin, ..., Sunnie S. Y. Kim, et al.
World Economic Forum (Environmental Performance Index is a large-scale evaluation of 180 countries' environmental health and ecosystem vitality. As the data team lead, I built the full data pipeline and led the analysis work. The results were presented at the World Economic Forum and covered by international media outlets.)

TALKS

- Upcoming Princeton COS 598B Machine Behavior
- 2025 Cornell Information Science Colloquium
Johns Hopkins Computer Science Seminar
Boston University Computing & Data Sciences Colloquium
SNU AI Computing Winter School
- 2024 Cornell Tech Social Technologies Lab
ECCV 2024 Workshop on Explainable Computer Vision
Princeton Concepts & Cognition Lab
MILA Human-Centered AI Reading Group
IBS Data Science Group
KAIST Kim Jaechul Graduate School of AI
NYC Computer Vision Day
- 2023 Explainable AI Talk Series
CHI 2023 Workshop on Human-Centered Explainable AI
- 2022 NeurIPS 2022 Workshop on Human-Centered AI
CVPR 2022 Workshop on Explainable AI for Computer Vision
- 2021 CVPR 2021 Workshop on Responsible Computer Vision
CVPR 2021 Workshop for Women in Computer Vision
- 2020 Princeton COS 429 Computer Vision
Princeton PIXL Talk Series
Princeton Bias in AI Reading Group

SERVICE

Organization

- 2025 FAccT 2025 Proceedings Chair
CVPR 2025 Workshop on Explainable AI for Computer Vision
NYC Computer Vision Day Program Committee
- 2024 CVPR 2024 Workshop on Explainable AI for Computer Vision
CHI 2024 Workshop on Human-Centered Explainable AI

2023 CVPR 2023 Workshop on Explainable AI for Computer Vision
CVPR 2023 Workshop for Women in Computer Vision
2018 NESS NextGen Data Science Day Local Organizing Committee

Committee

2021 Princeton Computer Science Graduate Admissions Committee
2017–2019 Yale Statistics & Data Science Departmental Student Advisory Committee

Community building

2022–2023 Explainable AI Slack and Twitter Community (Co-organizer)
2017–2019 Yale Dimensions Organization for Women and Other Minorities in Math (Co-founder)

Volunteer

ECCV (2024), FAccT (2024), CVPR (2022), ICML (2020), ICLR (2020), NeurIPS (2019–2020)
NSF Safety and Trust in AI-Enabled Systems Workshop (2022)
COVID Translate Project (2020)

PEER REVIEW

* indicates special recognitions for outstanding reviews

Conferences

CVPR (2022, 2023, 2024, 2025), ICCV (2021, 2023), ECCV (2022, 2024)
CHI (2023, 2024, 2025**), FAccT (2023, 2024, 2025), AIES (2024), SaTML (2023)

Workshops & Extended Abstracts

CHI 2025 Late Breaking Work*
CHI 2024 Workshop on Human-Centered Explainable AI
CVPR 2024 Workshop on Explainable AI for Computer Vision
NeurIPS 2023 Workshop on Explainable AI in Action
ICML 2023 Workshop on AI & HCI
CVPR 2023 Workshop on Explainable AI for Computer Vision
CVPR 2023 Workshop for Women in Computer Vision
AAAI 2023 Workshop on Representation Learning for Responsible Human-Centric AI
CVPR 2021 Workshop on Responsible Computer Vision

Challenges

ML Reproducibility Challenge (2020, 2021*, 2022*)

Books

Foundations of Computer Vision by Antonio Torralba, Phillip Isola, and William T. Freeman

TEACHING

- 2021 **Princeton Computer Science 429 Computer Vision**
Graduate Teaching Assistant
- Princeton AI4ALL**
Instructor
- 2019–2020 **TTI-Chicago Girls Who Code**
Co-founder and Instructor
- 2018 **Yale Statistics and Data Science 365/565 Data Mining and Machine Learning**
Undergraduate Teaching Assistant
- 2017 **Yale Statistics and Data Science 230/530 Data Exploration and Analysis**
Undergraduate Teaching Assistant

MENTORING

Research Mentoring

- 2024–Now **Allison Chen** (CS PhD student at Princeton. Recipient of the NSF Graduate Research Fellowship)
Understanding How People Attribute Mental Capacities to LLMs (ongoing project)
- 2024–Now **Indu Panigrahi** (CS Master's student at Princeton)
Incorporating Interactivity in AI Explanations (ongoing project)
- 2022–2023 **Rohan Jinturkar** (CS undergrad at Princeton. Recipient of the Sigma Xi Book Award for Outstanding Undergraduate Research & Outstanding CS Senior Thesis Prize)
Developing an Interactive, Dialogue-based AI Explanation System for Non-Experts (senior thesis)
- 2020–2022 **Nicole Meister** (ECE undergrad at Princeton, now EE PhD student at Stanford. Recipient of the NSF Graduate Research Fellowship, Calvin Dodd MacCracken Senior Thesis/Project Award & Sigma Xi Book Award for Outstanding Undergraduate Research)
Evaluating AI Explanations & Mitigating Contextual Bias in Visual Recognition Systems (papers published in *ECCV* and *ReScience C*)
- 2020–2021 **Sharon Zhang** (Math undergrad at Princeton, now CS PhD student at Stanford. Recipient of the Sigma Xi Book Award for Outstanding Undergraduate Research)
Mitigating Contextual Bias in Visual Recognition Systems (paper published in *ReScience C*)

Non-Research Mentoring

- 2022–2023 Princeton Computer Science G1 Mentoring Program
- 2021–2022 Princeton Computer Science Graduate Applicant Support Program

Updated March 2025