

# Sunnie S. Y. Kim

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## EDUCATION

- 2020–Now **Princeton University**  
PhD candidate in Computer Science advised by Olga Russakovsky  
Committee: 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)
- 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

### Working Papers

#### **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

#### **Interactivity x Explainability: Understanding How Interactivity Can Improve Computer Vision Explanations**

Indu Panigrahi, Sunnie S. Y. Kim, Amna Liaqat, Rohan Jinturkar, Olga Russakovsky, Ruth Fong, Parastoo Abtahi

### Conference and Journal Publications

#### 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  
*Conditionally accepted to 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, Extended Abstracts, and Technical Reports**

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 (XAI4CV)*

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 (HCXAI)*

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 (HCAI)*

**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 (XAI4CV)*

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 (FGVC)*

- 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

### Invited Talks and Guest Lectures

- 2025      **SNU AI Computing Winter School**, *Building Responsible AI with Human-Centered Evaluation*
- 2024      **Cornell Tech Social Technologies Lab**, *Building Trustworthy and Appropriately Trusted AI*  
**ECCV Workshop on Explainable Computer Vision: Where are We and Where are We Going?**, *Human-Centered Approaches to Explainable Computer Vision*  
**MILA Human-Centered AI Reading Group**, *Explainability and Trust in Human-AI Interaction*  
**IBS Data Science Group**, *Establishing Appropriate Trust in AI through Transparency*  
**KAIST Graduate School of AI**, *Supporting End-Users' Interaction with AI through Transparency*
- 2023      **Explainable AI Talk Series**, *"Help Me Help the AI": Understanding How Explainability Can Support Human-AI Interaction*

### Shorter Invited and Contributed Talks

- 2024      **NYC Computer Vision Day**, *Bridging Computer Vision and HCI: Understanding End-Users' Trust and Explainability Needs in a Real-World Computer Vision Application*
- 2023      **CHI Workshop on Human-Centered Explainable AI (HCXAI)**, *Explainable AI for End-Users*
- 2022      **NeurIPS Workshop on Human-Centered AI (HCAI)**, *Closing the Creator-Consumer Gap in XAI: A Call for Participatory XAI Design with End-Users*  
**CVPR Workshop on Explainable AI for Computer Vision (XAI4CV)**, *HIVE: Evaluating the Human Interpretability of Visual Explanations*
- 2021      **CVPR Workshop on Responsible Computer Vision (RCV)**, *Fair Attribute Classification through Latent Space De-biasing*  
**CVPR Workshop for Women in Computer Vision (WiCV)**, *Fair Attribute Classification through Latent Space De-biasing*

## SERVICE

### Conference and Event Organization

- 2025      FAccT 2025 Proceedings Chair  
 NYC Computer Vision Day Program Committee
- 2018      NESS NextGen Data Science Day Local Organizing Committee

### Workshop Organization

- 2025      CVPR 2025 Explainable AI for Computer Vision
- 2024      CVPR 2024 Explainable AI for Computer Vision

CHI 2024 Human-Centered Explainable AI  
2023 CVPR 2023 Explainable AI for Computer Vision  
CVPR 2023 Women in Computer Vision

### **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**

### **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**

CHI 2024 Human-Centered Explainable AI  
CVPR 2024 Explainable AI for Computer Vision  
NeurIPS 2023 Explainable AI in Action  
ICML 2023 AI & HCI  
CVPR 2023 Explainable AI for Computer Vision  
CVPR 2023 Women in Computer Vision  
AAAI 2023 Representation Learning for Responsible Human-Centric AI  
CVPR 2021 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 January 2025