

# Lydia B. Chilton | CV

Date of preparation: 16 February 2025

Field of Specialization:

- Computer Science
- Human-Computer Interaction
- Computational Design

Website: <http://www.cs.columbia.edu/~chilton/>

## Education

- 2009 - 2016     **University of Washington**, PhD in Computer Science  
*Dynamic Crowd Algorithms for Complex Problems (2016)*  
Advisors: James A. Landay (Stanford) and Daniel S. Weld (UW)
- 2009            **MIT**, MEng Electrical Engineering and Computer Science  
*Seaweed: A Web Application for Designing Economic Games (2009)*  
Advisor: Robert C. Miller
- 2007            **MIT**, S.B. Electrical Engineering and Computer Science
- 2006            **MIT**, S.B. Economics

## Employment

- 2017-now      **Columbia University**, Assistant Professor  
Computer Science Department  
*On leave January 1, 2021 - July 1, 2021 (parental leave)*  
*On leave January 1, 2023 - July 1, 2023 (parental leave)*  
*COVID clock extension: March 2020-March 2021*  
*COVID clock extension: March 2021-March 2022*
- 2016-2017     **Stanford University**, Post-Doc in Computer Science  
PI: Maneesh Agrawala

- 2014 fall      **Google Research**, Mountain View, CA  
Internship Mentors: Ed Chi, David Huynh
- 2010-2011     **Microsoft Research Asia**, Beijing, China  
Internship Mentor: James A. Landay
- 2010,  
summer        **Microsoft Research**, Redmond, WA  
Internship Mentor: Shamsqi Iqbal
- 2010, spring   **Microsoft Research**, Redmond, WA  
Internship Mentors: Jaime Teevan

## Current Research Group

### PhD

1. Vivian Liu “Semantic Controls of Neural Generation” PhD student. September 2020-present
2. Sitong Wang. September 2022-present
3. Tao Long, September 2022-present
4. Xuanming Zhang, Sept 2023-present (co-advised with Zhou Yu)
5. Yulun Du. January 2021-present
6. Riya Sahni August 2024-present

## Mentoring as Thesis Sponsor

### B.S. Theses Advised

Shaquan Nelson, "Saving the eCommerce Game: Making a better eCommerce site by utilizing APIs, marketing tools and React" December 2019

Samantha Ross. “WordBlender: Principles and Tools for Generating Word Blends”  
Expected August 2020.

### M.S. Theses Advised

Kaira Villanueva. Exploring User Localization as a Design Opportunity through Human-Centered Design Principles for the National Hurricane Center Home Page (nhc.noaa.gov). December 2020.

Michelle Quin - The Evolution of Print Newspapers' Front Pages and Homepages in a Digital Age. March 2021.

Padmanabhan Krishnamurthy, "Towards In-the-Wild AI Dubbing with Multilingual Text-to-Speech Synthesis". December 2022

Amrutavarsh Kinagi, "Towards In-the-Wild AI Dubbing with Multilingual Text-to-Speech Synthesis". December 2022

Taeahn Kwon, "Interfaces for Personalized Language Learning with Generative Language Models." December 2022

Je Seung You. "Designing SMS+: Science Message System" May 2023

## Doctoral Theses, Supervisor

1. Katy Gero. "AI and the Writer: How Language Models Support Creative Writers" PhD Student. September 2017-November 2022.

### Current Position:

- Post-doc, Harvard Computer Science Department 2023-2024
- Assistant Professor, University of Sydney (Australia), 2024-present

2. Savvas Petridis "Designing Exploratory Search Systems that Stimulate Memory and Reduce Cognitive Load" PhD student. September 2017- October 2022

### Current position:

- Post-doc, Google Research, People and AI Research (PAIR), 2024-2024
- Researcher, Google Deepmind, People and AI Research (PAIR). 2024-present

3. Daniel Li. PhD Student. "Enabling Structured Navigation of Longform Spoken Dialog with Automatic Summarization" April 2021-September 2022.

### Current Position:

- US Army

## Post-Docs

1. Robert Soden. Post-Doc July 2019-July 2020.  
Current position:
  - Assistant Professor, University of Toronto. 2020-present

## Doctoral Theses, As Reader:

1. Brian Smith. "Toward Transparent Interaction as a Source of Superpowers: Helping Users Perform Computing Tasks as if the Computer is Not There." October 2018.
2. Carmine Elvizio. "XR Development with the Relay & Responder Pattern." May 2021.
3. Daniel Miao. "Personalized Navigation Instruments for Map User Interfaces" February 2018
4. Jeffrey Bender. "Social Addictive Gameful Engineering (SAGE): A Game-based Learning and Assessment System for Computational Thinking." April 2023
5. Tuhin Chakrabarty. "Knowledge-enhanced Large Language Models and Human-AI Collaboration Frameworks for Creativity Support." April 2024.
6. Jen-Shuo Liu. "Precueing for Manual Tasks in Augmented and Virtual Reality". May 2024

## Publications

### Summary:

In HCI, the students who contributed the most are listed first in author order. Faculty are listed next. The senior faculty author is listed last.

Scholarly impact is typically assessed by citations.

In the list below, My students or postdocs supervised are underlined Senior author is denoted as: (senior author)

### Citation summary:

Total citations: 6064

h-index: 31

i10-index: 52

## **Proceedings of Refereed Conferences: (List in Chronological Order)**

1. *Tabulator: Exploring and analyzing linked data on the semantic web.*

Tim Berners-Lee, Yuhsin Chen, **Lydia B. Chilton**, Dan Connolly, Ruth Dhanaraj, James Hollenbach, Adam Lerer, and David Sheets.

Semantic Web User Interaction Workshop, 2006.

2. *Seaweed: A web application for designing economic games.*

**Lydia B. Chilton**, Clayton T. Sims, Max Goldman, Greg Little, and Robert C. Miller.

SIGKDD HCOMP 2009.

3. *The Labor Economics of Paid Crowdsourcing*

John J. Horton, **Lydia B. Chilton**

ACM E-Commerce 2010.

4. *TurKit: Human Computation Algorithms on Mechanical Turk*

Greg Little, **Lydia B. Chilton**, Max Goldman, Robert C. Miller.

UIST 2010.

5. *Exploring Iterative and Parallel Human Computation Processes*

Greg Little, **Lydia B. Chilton**, Max Goldman, Robert C. Miller.

KDD-HCOMP 2010.

6. *Task search in a human computation market*

**Lydia B. Chilton**, John J. Horton, Robert C. Miller, Shiri Azenkot

KDD-HCOMP 2010.

7. *Addressing Users' Queries directly in the Web Search Results*

**Lydia B. Chilton**, Jaime Teevan

WWW 2011.

8. *Cascade: Crowdsourcing Taxonomy Creation*

**Lydia B. Chilton**, Greg Little, Darren Edge, Daniel S. Weld, James A. Landay.

CHI 2013.

9. *Cobi: A community-informed conference scheduling tool.*

Juho Kim, Haoqi Zhang, Paul André, **Lydia B. Chilton**, Wendy Mackay, Michel Beaudouin-Lafon, Robert C. Miller, and Steven P. Dow.

UIST 2013.

10. *Community Clustering: Leveraging an academic crowd to form coherent conference sessions.*

Paul Andre, Haoqi Zhang, Juho Kim, **Lydia B. Chilton**, Steven P. Dow, and Robert C. Miller.

HCOMP 2013. **Honorable Mention for Best Paper**

11. *Frenzy: Collaborative Data Organization for Creating Conference Sessions*

**Lydia B. Chilton**, Juho Kim, Paul Andre, Felicia Cordeiro, James A. Landay, Daniel S. Weld, Steven P. Dow, Robert C. Miller, Haoqi Zhang.

CHI 2014. **Honorable Mention for Best Paper**

12. *MicroTalk: Using Argumentation to Improve Crowdsourcing Accuracy*

Ryan Drapeau, **Lydia B. Chilton**, Jonathan Bragg, Daniel S. Weld (senior author)

HCOMP 2016

13. *VisiBlends: An Interactive Pipeline for Creating Visual Blends*

**Lydia B. Chilton** (senior author), Savvas D. Petridis, Maneesh Agrawala.

CHI 2019.

14. *Metaphoria: An Algorithmic Companion for Metaphor Creation.*

Katy Gero, **Lydia B. Chilton** (senior author).

CHI 2019.

15. *MultiTalk: Multi-Turn Argumentation for Accurate Crowdsourcing*

Jim Chen, Jonathan Bragg, **Lydia B. Chilton**, Daniel S. Weld.

CHI 2019.

16. *Human Errors in Interpreting Visual Metaphors.*

Savvas Petridis, **Lydia B. Chilton** (senior author).

Creativity and Cognition. 2019

17. *Accessibility of social media.*

Cole Gleason, Amy Pavel, Xingyu Liu, Patrick Carrington, **Lydia B. Chilton**, and Jeffrey P. Bigham (senior author).  
ASSETS 2019.

18. Low Level Linguistic Controls for Style Transfer and Content Preservation.  
Chris Kedzie, Katy Ilonka Gero, **Lydia B. Chilton** (senior author).  
INLG 2019.

19. WordBlender: Principles and Tools for Generating Word Blends.  
Sam H. Ross, Ecenaz Jen Ozmen, Maria Kogan, **Lydia B. Chilton** (senior author).  
IUI 2020

20. VisiFit: Structuring Iterative Improvement for Novice Designers. **Lydia B. Chilton**,  
Ecenaz Jen Ozmen, Sam Ross, and Vivian Liu.  
CHI 2021.

21. What Makes Tweertorials Tick: How Experts Communicate Complex Topics on  
Twitter  
Katy Gero, Vivian Liu, Sarah Huang, Jennifer Lee, and **Lydia B. Chilton** (senior  
author).  
CSCW 2021

22. AmbiTeam: Providing Team Awareness Through Ambient Displays  
Sarah Morrison-Smith, **Lydia B. Chilton**, Jaime Ruiz (senior author).  
GI 2021

23. Hierarchical Summarization for Longform Spoken Dialog  
Daniel Li, Thomas Chen, Albert Tung, **Lydia B. Chilton** (senior author)  
UIST 2021

24. SymbolFinder: Brainstorming diverse symbols using local semantic networks  
Savvas Petridis, Hijung Valentina Shin, **Lydia B. Chilton** (senior author)  
UIST 2021

25. Insights and Opportunities for HCI Research into Hurricane Risk Communication  
Robert Soden, **Lydia B. Chilton**, Scott Miles, Rebecca Bicksler, Kaira Ray Villanueva,  
Melissa Bica  
CHI 2022

26. Design Guidelines for Prompt Engineering Text-to-Image Generative Models  
Vivian Liu, **Lydia B. Chilton** (senior author)  
CHI 2022

27. Improving Subject Representation in AI Generated Art: Design Guidelines for Using Image Prompts with Text-to-Image Generative Models  
Han Qiao, Vivian Liu, **Lydia B. Chilton** (senior author)  
Creativity and Cognition 2022

28. Sparks: Inspiration for Science Writing using Language Models.  
Katy Gero, Vivian Liu, and **Lydia B. Chilton**.  
DIS 2022

29. Eliciting Gestures for Novel Note-taking Interactions  
Katy Gero, **Lydia B. Chilton**, Chris Melancon and Mike Cleron.  
DIS 2022

30. Opal: Multimodal Image Generation for News Illustration  
Vivian Liu, Han Qiao, **Lydia B Chilton** (senior author)  
UIST 2022

31. SafeText: A Benchmark for Exploring Physical Safety in Language Models  
Sharon Levy, Emily Allaway, Melanie Subbiah, **Lydia Chilton**, Desmond Patton, Kathleen McKeown, William Yang Wang (senior author)  
ACL 2022

32. PopBlends: Strategies for Conceptual Blending with Large Language Models  
Sitong Wang, Savvas Petridis, Taeahn Kwon, Xiaojuan Ma, **Lydia B Chilton** (senior author)  
CHI 2023

33. AngleKindling: Supporting Journalistic Angle Ideation with Large Language Models  
Savvas Petridis, Nicholas Diakopoulos, Kevin Crowston, Mark Hansen, Keren Henderson, Stan Jastrzebski, Jeffrey V. Nickerson, **Lydia B Chilton** (senior author)  
CHI 2023

34. Social Dynamics of AI Support in Creative Writing  
Katy Ilonka Gero, Tao Long, **Lydia B Chilton** (senior author)  
CHI 2023



35. Improving Automatic Summarization for Browsing Longform Spoken Dialog  
Daniel Li, Thomas Chen, Alec Zadikian, Albert Tung, **Lydia B Chilton** (senior author)  
CHI 2023

36. *Designing with AI*  
**Lydia B Chilton** (senior author)  
XDRS Magazine Feature. Summer 2023

37. *How Much is Performance Worth to Users? A Quantitative Approach*  
Adam Hastings, **Lydia B. Chilton**, Simha Sethumadhavan (senior author).  
Computing Frontiers 2023

38. *StoryWars: A Dataset and Instruction Tuning Baselines for Collaborative Story Understanding and Generation*  
Yulun Du and **Lydia B Chilton** (senior author)  
ACL 2023

39 *Metaphorian: Leveraging Large Language Models to Support Extended Metaphor Creation for Science Writing*  
Jeongyeon Kim, Sangho Suh, Lydia B Chilton, Haijun Xia (senior author)  
DIS 2023

40. *Tweetorial Hooks: Generative AI Tools to Motivate Science on Social Media*  
Tao Long, Dorothy Zhang, Grace Li, Batool Taraif, Samia Menon, Kynneddy Simone Smith, Sitong Wang, Katy Ilonka Gero, **Lydia B. Chilton**  
ICCC 2023

41. *Writing out the Storm: Designing and Evaluating Tools for Weather Risk Messaging*  
Sophia S Jit, Jennifer Spinney, Priyank Chandra, **Lydia B Chilton**, Robert Soden  
(senior author)  
CHI 2024

42. *ReelFramer: Human-AI Co-Creation for News-to-Video Translation*  
Sitong Wang, Samia Menon, Tao Long, Keren Henderson, Dingzeyu Li, Kevin Crowston, Mark Hansen, Jeffrey V Nickerson, **Lydia B Chilton** (senior author)  
CHI 2024.

43. *Reading Subtext: Evaluating Large Language Models on Short Story Summarization with Writers*  
Melanie Subbiah, Sean Zhang, **Lydia B. Chilton**, Kathleen McKeown (senior author)

TACL 2024

44. *PodReels: Human-AI Co-Creation of Video Podcast Teasers*

Sitong Wang, Zheng Ning, Anh Truong, Mira Dontcheva, Dingzeyu Li, **Lydia B Chilton** (senior author)

DIS 2024

45. *Not Just Novelty: A Longitudinal Study on Utility and Customization of AI Workflows*

Tao Long, Katy Ilonka Gero, **Lydia B Chilton** (senior author)

DIS 2024

46. *MoodSmith: Enabling Mood-Consistent Multimedia for AI-Generated Advocacy Campaigns*

Samia Menon, Sitong Wang, **Lydia B Chilton** (senior author)

International Conference on Computational Creativity (ICCC) 2024

47. *Digital "Double Hatters": Exploring a Multimodal Workflow for Freelance Creatives*

Vivian Liu, Tao Long; Jenny Ma, Nathan Raw, Jiaxin Yang, Claudia Tang, Lulu Yueyi Wang, Yumo Yang, **Lydia B Chilton** (senior author)

Hawaii International Conference on System Sciences (HICSS-58) 2024

48. *Simulating Strategic Reasoning: Comparing the Ability of Single LLMs and Multi-Agent Systems to Replicate Human Behavior*

Karthik Sreedhar, **Lydia B Chilton** (senior author)

Hawaii International Conference on System Sciences (HICSS-58) 2024

49. *Scrolly2Reel: Retargeting Graphics for Social Media Using Narrative Beats*

Jenny Ma, Duy K. Nguyen, Pedro Alejandro Perez, **Lydia B Chilton** (senior author)

Hawaii International Conference on System Sciences (HICSS-58) 2024

50. *Seeing Science: Inquiry-Based Learning at Home Through Mobile Messaging System*

T Fuhrmann, MA Lemee, J Pang, JS You, Lydia B Chilton, C Vondrick, Paulo Blikstein (senior author)

Interaction Design and Children 2024

50. *Storysumm: Evaluating faithfulness in story summarization*

Melanie Subbiah, F Ladhak, A Mishra, G Adams, **Lydia B Chilton**, Kathleen McKeown (senior author)

EMNLP 2024

51. *DynEx: Dynamic Code Synthesis with Structured Design Exploration for Accelerated Exploratory Programming*

Jenny Ma, K Sreedhar, V Liu, S Wang, PA Perez, R Sahni, **Lydia B Chilton** (senior author)

CHI 2025

52. *LogoMotion: Visually Grounded Code Generation for Content-Aware Animation*

Vivian Liu, RH Kazi, LY Wei, M Fisher, T Langlois, S Walker, **Lydia B Chilton** (senior author)

CHI 2025

53. *Copying style, Extracting value: Illustrators' Perception of AI Style Transfer and its Impact on Creative Labor*

Julien Porquet, Sitong Wang, **Lydia B Chilton** (senior author)

CHI 2025

54. *Simulating Cooperative Prosocial Behavior with Multi-Agent LLMs: Evidence and Mechanisms for AI Agents to Inform Policy Decisions.*

Karthik Sreedhar, Alice Cai, Jenny Ma, Jeffrey V. Nickerson, **Lydia B Chilton** (senior author)

IUI 2025

## Papers Under Submission

1. *JumpStarter: Getting Started on Personal Goals with AI-Powered Context Curation*

Sitong Wang, Xuanming Zhang, Jenny Ma, Alison Hwang, **Lydia B Chilton** (senior author)

Under submission to DIS 2025

2. *AI at Work: Benefits and Challenges of Using an AI Tool for Creativity Support in the Organizational Context of a Newsroom*

Sitong Wang, Jocelyn McKinnon-Crowley, Tao Long, Kian Loong Lua, Keren Henderson, Kevin Crowston, Jeffrey V Nickerson, Mark Hansen, **Lydia B Chilton** (senior author)

Under submission to Creativity and Cognition 2025

3. *Audience Impressions of Connected Narrative Structures and Personal Language Style in Science Communication*

Grace Li, Yuanyang Teng, Juna Kawai-Yue, Unaisah Ahmed, Anatta S. Tantiwongse, Jessica Y Liang, Dorothy Zhang, Kynneddy Simone Smith, Tao Long, Lydia B Chilton  
(senior author)

Under submission to *Creativity and Cognition* 2025

### ***Books and Chapters in Books:***

#### *1. Why We Customize the Web.*

**Lydia B. Chilton**, Robert C. Miller, Greg Little, and Chen-Hsiang Yu.

Chapter In A. Cypher, M. Dontcheva, T. Lau, and J. Nichols, eds., *No Code Required: Giving Users Tools to Transform the Web*, Elsevier, 2010.

#### *2. Rewriting the Web with Chickenfoot*

Robert C. Miller, Michael Bolin, **Lydia B. Chilton**, Greg Little, Matthew Webber, and Chen-Hsiang Yu.

Chapter In A. Cypher, M. Dontcheva, T. Lau, and J. Nichols, eds. *No Code Required: Giving Users Tools to Transform the Web*, Elsevier, 2010.

### ***Other Major Publications:***

MP1. Sarah Morrison-Smith, Lydia B. Chilton, and Jaime Ruiz. 2022. AmbiTeam: enabling awareness of remote team activities using ambient displays. *XRDS* 28, 2 (Winter 2021), 60–65. <https://doi.org/10.1145/3495265>

## Funding History

- The Brown Institute for Media Innovation: Magic Grant.
  - Generating Emotional Impact
  - PI: Lydia B. Chilton
  - August 2015-August 2016
  - \$110,000
- The Brown Institute for Media Innovation
  - Seed Grant: Tech Tweets.
  - PI: Lydia Chilton
  - \$15,000.

- Sept 2019-Dec 2019.
- The Brown Institute for Media Innovation
  - Tech Tweets.
  - PI: Lydia Chilton
  - \$50,000.
  - Dec 2019-August 2021.
- New Venture Fund (Ford Foundation)
  - Rethinking Human Computer Interaction.
  - PI: Lydia Chilton
  - Co-PIs; Mark Hansen, Laura Kurgan
  - \$180,000.
  - My portion: \$60,000.
  - January 2020-January 2021.
- Columbia University Junior Faculty Diversity Award:
  - AI Tools for Human Productivity
  - PI: Lydia Chilton
  - \$25,000.
  - February 2020-February 2021.
- Filling “Data Voids” to Protect the Food Supply Against Climate Change.
  - Co-PIs: Eugene Wu, Dan Osgood
  - SIRS Grant
  - \$80,000
  - My portion: \$24,242
  - 9/1/20-6/30/21
- NSF FW-HTF-P: Planning to study automation and the future of news production.
  - Co-PIs: Kevin Crowston, Keren Henderson, Jeffrey Nickerson
  - \$130,854
  - My portion: \$14,800.
  - Sept 2020 – Sept 2021
- Technology Innovations for Urban Living in the Face of COVID-19. Education Through Crisis and Disruption: Inquiry-Based STEM Learning Via Enhanced Text Message.
  - Co-PIs: Lydia Chilton, Paulo Blikstein
  - \$85,000
  - My portion: \$42,500
  - Sept 2020 – Sept 2021
- Amazon Gift \$100,000
- Adobe Gift \$10,000 (my portion: \$10,000)
- NSF Collaborative Research: FW-HTF-R: The future of news work: Human-technology collaboration for journalistic research and narrative discovery

- PI: Kevin Crowston
  - Co-PIs: Lydia Chilton, Jeff Nickerson, Mark Hansen, Keren Henderson
  - \$585,000.
  - My portion: \$150,000
  - Dates: Sept 1, 2021 – Sept 12, 2024
- NSF Elements: Decision Engine for Socioeconomic Disaster Risk (DESDR) - Data Collection, Fusion, and Analysis to Protect Vulnerable Populations From Extreme Weather
  - PI; Eugene Wu,
  - Co-PIs: Dan Osgood, Lydia Chilton
  - My portion: \$150,000
  - Dates: 23 October 2020-September 2024
- NSF Collaborative Proposal: CO2PIP — A Community Project to advance and standardize approaches to paleo-CO2 reconstruction and build the next-generation Phanerozoic record
  - PI: Isabelle Montez
  - Co-PIs: Baerbel Hoenisch, Steven Feiner, Lydia Chilton
  - \$499,626
  - My Portion: \$11,688
  - Dates: Sept 1, 2021 – Sept 12, 2024
- 2021 Collaboratory Grant: Design Justice: Human-Centered Design and Social Justice
  - co-PIs: Harry West, Desmond Patton
  - \$100,000
  - Dates: 1 Sept 2021 – 1 Sept 2024
  - My portion: \$50,000
- Microsoft: Design Justice: Human-Centered Design and Social Justice
  - co-PIs: Harry West, Desmond Patton
  - \$65,000
  - Gift Starting: 1 April 2021
- Filling “Data Voids” to Protect the Food Supply Against Climate Change (Renewal)
  - PIs: Eugene Wu,
  - Co-PIs: Lydia Chilton, Dan Osgood
  - Amount: 80,000
  - Agency: SIRS/STAR
  - 10 June 2021- 10 June 2022
  - My Portion: \$25,000
- Inquiry-Based Stem Learning Via Enhanced Text Messaging (year 2) (renewal)
  - PIs: Lydia Chilton, Paulo Blikstein

- \$80,000
- Granting Agency: Urban Tech Awards (renewal)
- January 2022 - January 2023
- My portion: \$40,000
- NSF RETTL Collaborative Research: Seeing Science: Using Computer Vision to Explore the Scientific Principles Behind Everyday Objects
  - Total amount \$850,000
  - Funding Agency: NSF
  - Grant period: July 1, 2022 - June 30, 2025
  - PI: Lydia Chilton
  - Co-PIs: Carl Vondrick, Tamar Furhmann, Paulo Blikstein
  - School Administering Grant: DSI
  - My Portion: \$250,000
- Microsoft: JoyNet: An inclusive culturally responsive digital community mental health hub
  - PI: Desmond Patton
  - Funding agency: Microsoft
  - \$145,000
  - My Portion: \$50,000
  - September 2022-September 2023
- DARPA ECOLE Program No. #HR00112390060
  - MIRACLE: Multimodal InteRActive Conceptual LEarning
  - PI: Heng Ji (UIUC), Carl Vondrick (Columbia)
  - \$6,300,000
  - My portion: \$300,000 (subject to change as we renegotiation division of labor)
  - September 2023- September 2027
- Sloan Research Fellowship
  - PI: Lydia Chilton
  - \$150,000
  - Funding Agency: Sloan Foundation
  - Dates: September 2025-August 2027

## Awards/Honors Received:

**MIT** (University) Burchard Scholar in the Humanities. 2005

**Google** Anita Borg Scholarship. 2009

**MIT** (EECS Department) Charles & Jennifer Johnson MEng Thesis Award. May 2009

**MIT** (EECS Department) Special EECS Department Recognition Award for starting 6.470. May 2009.

**UW** (CSE Department) Denice Denton Scholarship. 2009

**MIT EECS Rising Academic Stars Workshop**. 2012

**Facebook** Fellowship. 2013

**ACM** Future of Computing Academy 2019

**Columbia** SEAS Columbia Alumni Association Distinguished Faculty Teaching Award. 2023

**Sloan Foundation**. Sloan Research Fellowship. 2025.

## Awards/Honor for PhD Students

Katy Gero. NSF Graduate Research Fellowship 2019-2022

Katy Gero. CHI Best Paper Award. CHI 2020

Vivian Liu. NSF Graduate Research Fellowship 2021-2024

Riya Sahni. NSF Graduate Research Fellowship 2024-2027

## Teaching Experience

<b>Term</b>	<b>Subject Number</b>	<b>Title</b>	<b>Role</b>
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Spring 2018	COMS 4170	User Interface Design	Lecturer
Fall 2018	COMS 6998-08	Advanced Web Design Studio	Lecturer
Spring 2019	COMS 4170	User Interface Design	Lecturer
Fall 2019	COMS 6998-08	Advanced Web Design Studio	Lecturer
Fall 2019	IEOR 4574	Census Design Challenge	co-Lecturer
Spring 2020	COMS 4170	User Interface Design	Lecturer
Summer 2020	ENG 4701-02	Design Challenge: Reducing Inequality & COVID-19	co-Lecturer
Summer 2020	ENG 4701-05	Design Challenge: Social Interactions & COVID-19	co-Lecturer
Fall 2020	COMS 6998-02	Adv Web Design Studio: Public Interest Technology	Lecturer
Fall 2021	COMS 6998-02	Adv Web Design Studio: Designing for Emerging Technology	Lecturer
Fall 2021	ENGI 4300	Design Justice	Lecturer
Spring 2022	COMS 4170	User Interface Design	Lecturer
Fall 2022	COMS 6998	Adv Web Design Studio: Designing for Emerging Technology	Lecturer

## Teaching Evaluations

Spring 2018: COMS 4170 User Interface design,

- Enrollment: 79
- Course score: Mean 4.50
- Instructor score: Mean 4.68

Fall 2018: COMS 6998-08 Adv Web Design Studio),

- Enrollment: 30 students
- Course score: Mean 4.50
- Instructor score: Mean 4.58

Spring 2019: COMS 4170: User Interface Design

- Instructor: Lydia Chilton
- Enrollment: 107
- Course score: Mean 4.48
- Instructor score: Mean 4.77

Fall 2019: COMS 6998: Advanced Web Design Studio

- Instructor: Lydia Chilton
- Enrollment: 26
- Course score: Mean 4.40
- Instructor score: Mean 4.60

Fall 2019: IEOR 4574: Census Participation Challenge

- Co-instructors: Lydia Chilton, Harry West
- Enrollment: 20
- Course score: Mean 3.88
- Instructor score: Mean 4

Spring 2020: COMS 4170: User Interface Design section 001

- Instructor: Lydia Chilton
- Enrollment: 108
- Eval: not available due to COVID

Spring 2020: COMS 4170: User Interface Design section 002

- Instructor: Lydia Chilton
- Enrollment: 107
- Eval: not available due to COVID

Fall 2020: COMS 6998: Advanced Web Design Studio

- Instructor: Lydia Chilton
- Enrollment: 25
- Course score: Mean 4.19
- Instructor score: Mean 4.24

Spring 2021: (none – maternity leave)

Fall 2021: COMS 6998: Advanced Web Design Studio

- Instructor: Lydia Chilton
- Enrollment: 35
- Course score: Mean 5
- Instructor score: Mean 4.91

Fall 2021: ENGI 4300: Design Justice

- Instructors: Lydia Chilton, Harry West, Desmond Patton
- Enrollment: 24
- Course score: Mean 3.43 (only 7 respondents)
- Instructor score: Mean 3.33 (only 3 respondents)

Spring 2022: COMS 4170: User Interface Design

- Instructor: Lydia Chilton
- Enrollment: 487
- Course score: 4.35
- Instructor score: 4.53
- Response rate: unclear, but around 50%

Fall 2022 - COMS 6998: Advanced Web Design Studio

- Instructor: Lydia Chilton
- Enrollment: 359
- Course score: 4.33
- Instructor score: 4.5
- Response rate: 45/96 (46.88 %)

Spring 2023: (none – maternity leave)

Fall 2023: COMS 6998: Designing for Generative AI

- Instructor: Lydia Chilton
- Enrollment: 53
- Course score: 4.68 /5
- Instructor score: 4.55/5
- Response rate: 22/53 (41.51 %)

Spring 2024 - COMS 4170 User Interface Design

- Instructor: Lydia Chilton
- Enrollment: 415
- Course score: 4.37

- Instructor score: 4.43
- Response Rate: 164/415 (40%)

## Invited Talks

22 July 2018, "Creating Visual Metaphors with Crowds and Machines" Invited Talk. Conference on Vision and Pattern Recognition (CVPR). Salt Lake City, Utah.

3 August 2018, "Creating Visual Metaphors with Crowds and Machines" Invited Talk. SRI. Princeton, NJ

12 September 2018 "Creating Visual Metaphors with Crowds and Machines" Invited Talk. A/D/O Design Space. Brooklyn, New York.

7 February 2019. "Crowdsourcing Creative Ads" B12 (startup company in NYC).

22 February 2019. "Crowdsourcing Creative Ads" NYC Media Lab: Media + Machines.

5 March 2019. "Crowdsourcing Creative Ads" ACM New York City Meetup. NYC Data Science Academy (500 8th Ave, Suite 905)

17 April 2019 - Grammarly "AI Tools for Creative Writing" (with my PhD student Katy Gero). Grammarly offices, New York, New York.

23 May 2019 - Dow Jones "Crowdsourcing Creative Ads" New York, New York. Dow Jones offices, New York, NY.

3 June 2019 - Collective Intelligence Conference "VisiBlends: A Flexible Workflow for Visual Blends" Pittsburgh, Pennsylvania.

19 June 2019 - Google. "VisiBlends and Animated Metaphors" Mountain View, CA

26 June 2019 - Society of Imaging and Informatics in Medicine) "The UI of AI" Denver, Colorado.

17 July 2019 - MSR Faculty Summit on the Future of Work. "Microtasks for Augmenting Fluid Intelligence" Redmond, Washington.

25 July 2019 - MD.ai (NYC Medical AI Start up) "Crowdsourcing Creative Ads". New York, NY.

29 July 2019 – Invited Keynote: Computational Interactions Workshop. "Computational Design of Creative Ads" Held on the Columbia University Campus ( but not affiliated with Columbia), NY, NY

9 August 2019 - Common Bond (student debt consideration start up) "Workflows for Creativity". New York, NY.

2 October 2019: University of Washington (DUB) "AI Tools for Creative Work". Seattle, WA.

14 November 2019 – Columbia Daily Spectator Brand Studios – "Engaging Audiences with VisiBlends" New York, NY.

21 January 2020 – Google Brain, "AI tools for Creative Ads". Cambridge, MA.

5 June 2020 - Rutgers DIMACS (student research) "AI Tools for Creative Work"

30 July 2020 - HK Maker lab HS summer program "AI Tools for Creative Work"

16 September 2020 - SEAS and Columbia Business School: Designing for Public Safety: What We Learned from UX Design Studies of the NYS Contact Tracing App  
[https://youtu.be/h3Z4pZzT\\_Cc](https://youtu.be/h3Z4pZzT_Cc)  
<https://leading.gsb.columbia.edu/webinars/>

30 September 2020- Columbia Engineering Experience Q&A - a discussion with elite HS seniors from traditionally underrepresented in STEM

12 October 2020 - Columbia Engineering Experience Q&A (another one)

13 October 2020 - Faculty Development Session: Supporting Students During Turbulent Times

19 October 2020 - Barnard BEARS seminar "AI Tools for Creative Work"

26 October 2020 - Bloomberg: "AI Tools for Design and Innovation"

13 November 2020 - New America's PIT-UN 2020 Convening "Panel: Teaching PIT through a Multidisciplinary Lens"

12 May 2021. Moody's Innovation Series. "AI Tools for Design and Innovation"

23 October 2021. Engineering Women's Forum. Panelist. Columbia University.

16 November 2021. Fidelity Center for Applied Technology (FCAT) "AI Tools for Design and Innovation". Fidelity Center for Applied Technology (FCAT)

18 November 2021. Columbia SEAS Fall Board of Visitors Meeting. "Inquiry-based learning through SMS technology ". Columbia University.

9 February 2022. BEARS talk. Barnard College.

18 April 2022 - "AI Tools for Design and Innovation" Master Class for Admitted Students. Online.

6 June 2022 - "Tweeterials: Fast and Easy Public Outreach." NSF CO2PIP Workshop. Online.

9 June 2022 - "How can AI help you? Explore writing with a machine." Computational + Journalism Workshop. Columbia University

25 July 2022 - "Elements: Open-Source Cyberinfrastructure as a Decision Engine for Socioeconomic Disaster Risk." NSF CSSI PI Meeting. Washington, DC.

14 August 2022 - "AI Tools for Creativity" KDD "First Content Understanding and Generation for E-commerce Workshop" Washington, DC.

20 October 2022 - "A Human-Centered Design Approach for Alexa." Amazon Alexa AI Team.

5 November 2022 - "AI Tools for Design and Creativity." Mark Cuban Foundation.

23 March 2023 – "Designing with AI." University of Michigan Information School Invited Talk

20 April 2023 - "Designing with AI." Microsoft applied AI talk series

31 May 2023 - "Applications of AI." Palantir. New York, NY

29 June 2023 - "Reaching New Audiences with Generative AI." University of Bergen Norway, Media Futures Group. (online)

15 August 2023 - "Retargeting Content with Generative AI." Adobe Research (online)

24 August 2023 - "Can A.I. Take a Joke?" Freakonomics podcast

5 October 2023 - "Promise and Pitfalls in Machine Learning: What Finance can Learn from Other Disciplines." Panelist. National Organization of Investment professionals. Goldman Sachs. New York, NY

17 October 2023 – "Designing with AI." MIT HCI Seminar. (Cambridge, MA)

29 November 2023 - "Designing with AI." Mor Naaman Lab - Cornell Tech

11 December 2023 - "Designing with AI". Amazon Design

19 June 2024 NAACL 2024 Workshop NLP+HCI. "Augmenting Human Creativity: How AI and HCI Combine to Enable Better Design and Innovation" (Mexico City, remote)

19 June 2024 NAACL 2024 Workshop Figurative Language Panel. (Mexico City, remote)

23 June 2024 Creativity and Cognition Graduate Student Symposium (Chicago, IL)  
"Designing with AI: How AI can Augment Human Cognition in the Design Process"

5 August 2024 IBM Human-Centered AI speaker. "Augmenting Human Creativity"

23 September 2025 - Columbia University Guest Lecture for class "AI in Context."  
"Can AI augment human creativity? How can AI help and what are its limitations?"

1 November 2024 - Columbia GSAPP AI Actioning Summit, Human AI Session.  
"Human AI Collaboration: How AI augments human cognition for design and innovation"

7 November 2024 - Columbia Visualizing Science Symposium. Panel on "Navigating the Future: Art, Science, and AI."

15 November 2024 - EMNLP 6th Workshop on Narrative Understanding.  
"Narrative Reframing: Human-AI Co-Creation for Media Retargeting in Journalism"

8 February 2025 - Keynote Columbia DevFest Hackathon. “The Future of Programming with AI”

## Service

Activity	Beginning	Ending
Columbia Libraries Advisory Board Member	January 2022	present
Columbia AI in Teaching Committee Member	September 2023	present
SEAS COVID Task force	March 2020	August 2020
SEAS Admitted Students Master Class	April 14, 2020	n/a
SEAS Commencement LionCraft videos	May 2020	n/a
SEAS Board of Visitors Design Challenge videos	May 2020	n/a
SEAS Summer Design Challenges	June 2020	August 2020
SEAS+CBS NYS Covid Contact Tracing app	August 2020	Sept 2020
SEAS Columbia Giving Day LionCraft videos	October 2020	n/a
SEAS Family Day presentation	October 2020	n/a
SEAS Family Day presentation 2023	October 2023	n/a
SEAS Days on Campus Lecture 2023	April 2023	n/a
SEAS Days on Campus Lecture 2024	April 2024	n/a
CS Faculty Retreat Co-Organizer	Dec 2018	Dec 2020
CS Presidential Fellowship Committee	Dec 2018	Dec 2020
CS Faculty Lunch Co-Organizer	Dec 2018	Dec 2020
CS DEI Committee member	Sept 2020	present
CS Faculty retreat session co-lead: How to better support our PhD students	April 2021	n/a
CS Faculty Retreat Session Chair 2022	April 2022	n/a
CS Faculty Retreat Organizer 2024	Jan 2024	April 2024
Faculty Mentor: ADI	Sept 2017	present
Faculty Mentor: Columbia Build Lab	May 2020	present
Faculty Mentor: Design at Columbia	Jan 2020	present
Faculty Mentor: Columbia Virtual Campus	April 2020	Dec 2020
Faculty Mentor: LionCraft	April 2020	May 2022
DSI Education Working Group	Nov 2020	present
DSI Center for Data, Media and Society	Sept 2020	present



Barnard Undergrad Advising  
Barnard CS Admissions Talks

March 2018  
April 14, 2020

Dec 2020  
n/a

## Service, Internal Talks

10 April 2018, "An Interactive Pipeline for Creating Visual Blends" Society of Women Engineers (SWE) at Columbia Annual Conference. Columbia University

13 April 2018, "Collective Intelligence and Iterative Design." "From Data to Solutions Seminar." Columbia University

5 September 2018. "An Interactive Pipeline for Creating Visual Blends" Undergraduate Research Panel. Columbia University.

21 September 2018. "Tools for Decentralized Decisions." ERICA Presentation. Columbia University

4 October 2018. "Design and Prototyping." Guest lecture in COMS 4170 (User Interface Design) for Prof. Feiner. Columbia University.

25 January 2019. "Crowdsourcing Visual Ads" Computational Social Science Seminar. Columbia University

30 March 2019. "Crowdsourcing Creative Ads" SWE Explore **Keynote**. Columbia University.

13 April 2019 - CU Master class (Internal) "Crowdsourcing Creative Ads" Columbia University.

19 April 2019 - "Crowdsourcing Creative Ads" SWE Day at Columbia. Columbia University.

18 November 2019 – Invited lecture for Daniel Hsu's Machine Learning class "AI Tools for Creative Work". Columbia University.

25 November 2019 – Invited lectured in Art of Engineering "AI Tools for Creative Work" Columbia University.

3 December 2019 – Invited lectured in Carl Vondrick’s Computer vision Class “AI Tools for Creative Work” Columbia University.

5 December 2019 – Invited panelist. “Technology and the Human Advantage. Columbia University.

3 February 2020 – ADI DevFest Invited Keynote. “Make a Difference. Start with one.” Cambridge, MA.

18 February 2020 – Columbia Business School: Women in Tech. invited talk. “AI Tools for Creative Work” New York, NY.

3 April 2020 – Art of Engineering lecture on Design. "AI Tools for Creative Work"

6 April 2020- Virtual Campus Design Challenge: Keynote! "Designing Remotely"

14 April 2020 - Master class for admitted SEAS students. "AI Tools for Creative Work"

5 June 2020 - Design at Columbia, Phase 3: Sketch "Design Scope: Find your MVP"

6 June 2020 - SEAS Alumni Weekend 2020 "Design Centric Paths to Inclusive AI"

12 June 2020 - Design at Columbia, Phase 4: Decide & Prototype "Visual Communication"

30 June 2020 - Guest lecture for Barnard’s User Experience Design For Technology (HS students) "AI Tools for Creative Work"

11 August 2020 - Master Class for prospective SEAS students "AI Tools for Creative Work"

18 September 2020 - Graduate Society of Women in Engineering Panelist Invite:

23 October 2020 – SEAS Family Days “AI and Design”

20 November 2020 - SWE Faculty Research Panel

21 April 2021 - DSI Data Science Day “AI Tools for Design and Innovation”

22 September 2021. Design at Columbia. Columbia University "What is Design?"

8 November 2021. "AI Tools for Design and Innovation" CUIMC

19 November 2021. Emerging Scholars Program. "AI Tools for Design and Innovation" Columbia University.

9 August, 2022 - Panelist for Dual MBA/Executive MS: Engineering and Applied Science Information Session. Online.

30 August 2022 - "AI Tools for Creativity and Design" Transformational Learning Technologies Lab. Teacher's College Columbia University. New York, NY.

14 October 2022 - Women in Science and Engineering (WiSE) Conference Faculty Panel

21 October 2022 - "AI Tools for Design and Creativity." Egleston Scholar Talk.

22 April 2023 - "Designing with AI." Columbia University Days on Campus

6 October 2023 - "Designing with AI." Columbia University Egleston Scholars.

12 October 2023 – "What is AI?" Columbia University Libraries (PAFL Committee)

13 October 2023 - "Designing with AI." SEAS Family Weekend.

6 December 2023 – "Monstrous AI. (Panelist)" Institute for Religion, Culture, and Public Life. Columbia University.

12 February 2024 - "AI Tools for Science Writing." Barnard Generative AI Learning Community.

13 April 2024 - SEAS Days on Campus. "Designing with AI: Enabling Human-AI Co-Creativity"

2 May 2024 - Jennifer Yu "AI Learning and Storytelling" Dean's Office

23 September 2025 - Columbia University Guest Lecture for class "AI in Context." "Can AI augment human creativity? How can AI help and what are its limitations?"

1 November 2024 - Columbia GSAPP AI Actioning Summit, Human AI Session. "Human AI Collaboration: How AI augments human cognition for design and innovation"

7 November 2024 - Columbia Visualizing Science Symposium. Panel on “Navigating the Future: Art, Science, and AI.”

8 February 2025 - Keynote Columbia DevFest Hackathon. “The Future of Programming with AI”

### ***Professional Services:***

As a student:

- CHI 2011 Web Chair
- Co-organizer for CHI 2011 Workshop on Crowdsourcing and Human Computation
- HCOMP 2013. Organizer of CrowdCamp: Crowdsourcing Research Hackathon
- CSCW 2013 Organizer of CrowdCamp Research Hackathon

As Faculty:

- CHI 2018 Program Committee
- CHI 2019 Program Committee
- CHI 2019 Best Paper Committee
- UIST 2019 Program Committee
- UIST 2019 Sponsorship co-chair
- HumBL workshop Program Committee World Wide Webb Conference (WWW) 2019
- Collective Intelligence Program Committee 2019
- Kavli Frontiers of Science Symposium, co-organizer (Interdisciplinary meeting that invites junior faculty across all areas of STEM to learn about emerging research in other areas) 2019
- ACM Future of Computing Academy 2019
- Workshop Co-organizer CSCW 2019. “Accessibility of Social Media.”
- UIST 2020 Sponsorship co-chair
- CHI 2020 Program Committee
- UIST 2020 Program Committee
- Workshop Co-organizer IUI 2020: “HAI-GEN 2020: Human-AI Co-Creation with Generative Models”
- Workshop Co-organizer CHI 2020: “Embracing Uncertainty in HCI”
- UIST 2021 Sponsorship co-chair

- Workshop Co-organizer IUI 2021: “HAI-GEN 2020: 2<sup>nd</sup> Human-AI Co-Creation with Generative Models”
- Virtual NSF CHS Panel June 16-17, 2020 P202180
- Guest Editor: TOCHI 2021 special issue on computational interaction/design
- Virtual NSF Panel Medium: Multimodality. April 14-15, 2022 P221756
- CHI 2022 Program Committee
- UIST 2021 Sponsorship co-chair
- UIST 2022 PC members
- Workshop Co-organizer IUI 2022: “HAI-GEN 2022: 3<sup>rd</sup> Human-AI Co-Creation with Generative Models”
- Workshop Co-organizer IUI 2023: “HAI-GEN 2023: 4th Human-AI Co-Creation with Generative Models”
- NSF Future of Work Panel. June 1-2, 2023
- Workshop co-organizer GenAI+HCI - CHI 2023
- Workshop co-organizer- Architecting Novel Interactions With Generative AI Models - UIST 2023
- Creativity and Cognition 2023 Graduate Student Symposium Co-chair
- CHI 2024 Program Committee
- NSF Panel REU Cite, December 14-15, 2023
- Creativity and Cognition 2024 Graduate Student Symposium Co-chair
- Workshop Co-organizer IUI 2024: “HAI-GEN 2024: 5th Human-AI Co-Creation with Generative Models”
- UIST 2024 Program Committee
- Workshop co-organizer- Generative AI in User-Generated Content - CHI 2024
- CHI 2025 Program Committee
- Workshop Co-organizer IUI 2025: “HAI-GEN 2025: 6th Human-AI Co-Creation with Generative Models”

## Outreach Efforts

- 23 February 2019. Live on-air news segment on local Fox new with Ernie Anastos on Trump’s commitment to funding AI research. (general public, media)
- October 2018 Google Grace Hopper NYC Career Panelist (To STEM Women in the NYC area). (under-represented)
- 2019 Interviewed and featured in a CVPR magazine article. (general public, media)
- 2019 Invited Judge for NYC Hacks (general public)

- 2019 SWE- IEEE Explore Keynote – High School girls, many underrepresented. (under-represented minorities, K-12)
- 2019 SWE- IEEE Explore Talk – High School girls, many underrepresented. (under-represented minorities, K-12)
- 2020 Guest lecture in Augustin Chaintreau’s AI for All – an AI summer school for high school students, most of whom are URMs.
- 30 July 2020. *Outreach to K-12, underrepresented students in STEM*. Talk to HK Maker Labs summer program for underrepresented teens. Invited by Aaron Kyle. Talk title: “AI Tools for Creative Work”
- 1-12 August 2020. *Outreach to K-12*. Led a two-week design spring for 8 high school journalism students associated with Columbia Secondary School. Released an online news site for NYC high school students:
- 20 August 2020. *Media. Outreach to underrepresented students*. Two of my summer researchers from Barnard were covered in Barnard press release.:
  - <https://cs.barnard.edu/news/new-generation-computer-science-experts>
- October 20, 2020. *Media*. Quoted in Lifewire: <https://www.lifewire.com/why-the-iphone-mini-is-just-the-right-size-5082634>
- 29 October, 2021. I was on Local Fox 5. Facebook Metaverse - is it the future? (Also spoke about my LionCraft project)
- 5 November 2022 - “AI Tools for Design and Creativity.” Talk to Mark Cuban Foundation. (HS women in CS)
- WSJ (Quoted) 13 May 2023
  - [https://www.wsj.com/articles/chatgpt-bard-bing-ai-political-beliefs-151a0fe4?cx\\_testId=3&cx\\_testVariant=cx\\_170&cx\\_artPos=0&mod=WTRN#cxrecs\\_s](https://www.wsj.com/articles/chatgpt-bard-bing-ai-political-beliefs-151a0fe4?cx_testId=3&cx_testVariant=cx_170&cx_artPos=0&mod=WTRN#cxrecs_s)

## Media Coverage

- 8 May 2019. VisiBlends paper covered by Columbia Engineering
  - <https://engineering.columbia.edu/press-releases/lydia-chilton-visiblends>
  - Also picked up by ACM TechNews June 2019
- 12 September 2018. A/D/O Podcast interviewee. (general public, media)
- 23 Oct 2019. Grant for Public Interest Technology covered by Columbia Engineering.
  - <https://engineering.columbia.edu/news/grant-curricula-technology-design>
- 27 Jan 2020. TIME magazine article about my paper about making memes accessible to blind users
  - <https://time.com/5759721/meme-accessibility-blind/>

- 1 May 2020. *Media*. SEAS covers our Virtual Campus Hackathon for COVID-10. (including Sentiment and LionCraft projects)
  - <https://engineering.columbia.edu/news/lydia-chilton-eugene-wu-design-challenge-covid> (LionCraft)
- 1 May 2020. *Media*. Class day promotion uses LionCraft virtual campus in promotion
  - <https://view.info.alumdev.columbia.edu/?qs=9568f63a920c213396c60e3596a60a5be8c0998a90c527c0d0b69617fa2159a56f602669c2cd70b5ae7e9b9205263d87d0d552d182c59e608d30849eca971eb9eab78b5144a88cdeb3de74acea9610cfc>
- 31 May 2020. *Media*. *Outreach to underrepresented students*. PowerThread (women in tech blog) covers Sentiment project.
  - <https://thepowerthread.com/madeline-placik-and-julia-sheth-co-founders-of-sentiment/>
- 24 June 2020. *Media*. SEAS covers Sentiment project.
  - <https://engineering.columbia.edu/news/sending-right-message>
- 29 October 2021; "In New Project, Millions of Farmers Will Help to Improve Insurance Against Climate Disasters"
  - <https://iri.columbia.edu/news/in-new-project-millions-of-farmers-will-help-to-improve-insurance-against-climate-disasters/>
- Tech Crunch 24 April 2022
  - <https://techcrunch.com/2022/04/24/deep-science-ai-simulates-economies-and-predicts-which-startups-receive-funding/>
- Columbia CS - 24 May 2022
  - <https://www.cs.columbia.edu/2022/voices-of-cs-zachary-huang/>
- Columbia Provost Office - 27 June 2022
  - <https://provost.columbia.edu/news/junior-faculty-share-research-trustees>
- Columbia Engineering - 5 August 2022
  - <https://www.engineering.columbia.edu/news/using-tech-help-african-farmers-collect-payouts>
  - "Using Tech to Help African Farmers Collect Index Insurance Payouts"
- Guest on the Freakonomics podcast - Aired August 24, 2023
  - "Can AI take a joke?"
- Columbia Engineering - 7 March 2023
  - Will ChatGPT and AI Help or Harm Us?
  - <https://news.columbia.edu/news/will-chatgpt-and-ai-help-or-harm-us->
- LDV blog - March 20, 2023
  - <https://www.ldv.co/blog/why-these-10-brilliant-professors-researchers-are-focusing-on-ai>
- Generative AI in the News Room blog - 27 March 2023

- <https://generative-ai-newsroom.com/news-illustration-with-generative-ai-4955a71cbd83>
- <https://generative-ai-newsroom.com/finding-story-angles-using-interactive-generative-ai-tools-b1c16e5e5f7c>
- Generative AI in the News Room blog - 19 April 2023
  - <https://generative-ai-newsroom.com/finding-story-angles-using-interactive-generative-ai-tools-b1c16e5e5f7c>
- LDV Blog - 22 May 2024
  - <https://www.ldv.co/blog/women-spearheading-advances-in-visual-tech-and-ai>
- IBM Blog post - 24 May 2024
  - <https://medium.com/human-centered-ai/hai-gen-2024-5th-workshop-on-human-ai-co-creation-with-generative-models-e2f7a5a9362d>

## Students Mentored

### Undergrad

Connor Goggins, January 2018-June 2018

William Essife, January 2018-June 2018

Wendy Wang, June 2018-October 2018

Shaquan Nelson, Sept 2018- Dec 2018

Jessica Cohen, Sept 2018-Dec 2018

Ecenaz Ozmen, September 2018-Dec 2020

Maria Kogan, January 2019- December 2019

Harrison Wang, January 2019- May 2019

Arjun Mangla, January 2019-May 2019

Samantha Ross, March 2019-March 2020

Claire Chen, June 2019-December 2019

Kaira Villanueva, January 2020-Dec 2020

Cindy Espinosa, Sept 2019-December 2019

Pelin Cetin, Sept 2019-October 2019

Annie Sui, June 2019-December 2020

Oskar Garcia, August 2019-December 2019

Lucia Nuovo, September 2021-December 2021

Mariam Mustafa, September 2021- May 2022

Cameron Joyner, July 2021- May 2022

Mareike Keller, July 2021- May 2022

Yingjie Wang, January 2022- May 2023

Naina Lavakare, January 2022- May 2022

William Liang, January 2022- May 2022

Daria Manea, January 2022- May 2022

Maria Ablizu, January 2022-May 2022

Grace Li, January 2022-present

Charlotte (Zihao) Li, January 2022-May 2022

Dorothy Zhang, January 2022-May 2023

Sarah Tang, January 2022-May 2022

Batool Taraif, January 2022-May 2023

Jason Kao, January 2022-May 2022

HongSen Du, January 2022-May 2022

Je Seung You, January 2022-May 2022

Kynneddy Smith, January 2022-present



Hector Liang, August 2019- December 2020  
Laura Block, August 2019-May 2020  
Maddy Placik, January 2020- May 2020  
Julia Sheth, January 2020- May 2020  
Portia Wang, January 2020- May 2020  
Evan Tilley, August 2019-present  
Ani Wilcenski, January 2020-May 2020  
Gustie Owens, January 2020-May 2020  
Joseph Cushner, January 2020-May 2020  
Nurassyl Shokeyev, Jan 2020-May 2020  
Noah Huber-Feely, Jan 2019-May 2020  
Sarah Huang, May 2019-December 2019  
Jennifer Lee, May 2019-September 2019  
Kelsey Namba, May 2019- Sept 2019  
Katherine Pflieger, Jan 2019-June 2019  
Defne Sonmez, January 2021-May 2021  
Zoe Panas, January 2021-May 2021  
Iliana Cantu, January 2021-May 2021  
Ramisa Murshed, January 2021-May 2021  
Rupal Gupta, January 2021-May 2021  
Francesca Loiodice, January 2021-May 2021  
Pazit Schrecker, January 2021-May 2021  
Anne-Laure Razat, May 2020-August 2020  
Grace He, May 2020-December 2020  
Emily Ringel, September 2020-December 2020  
Priya Pai, January 2020-August 2020  
Bella Tincher, January 2020-August 2020  
Sadia Sharif, September 2021-may 2023  
Sophia Borletti, September 2021- May 2022  
Aaron Johnson, September 2021- May 2022

Arthi Krishna, September 2022-May 2023  
Eugene Li, September 2022-May 2023  
Ray Banke, January 2022-May 2023  
Daniel Zhang, Sept 2023-December 2024  
Miranda Zhou, Sept 2023-December 2024  
Amina Isayeva, Sept 2023-December 2024  
Kareem DaCosta, Sept 2023-December 2024  
Dieter Joubert, Sept 2023-December 2024  
Aaron Zhu, Sept 2023-present  
Phoebe Adams, Sept 2023-present  
Annie Shaw, January 2024-May 2024  
Bhavya Bellannagari, Jan 2024-May 2024  
Juna Kawai-Yue, January 2024-Sept 2024  
Anatta Tantiwongse, January 2024-Sept 2024  
Unaisah Ahmed, January 2024-Sept 2024  
Pedro Perez, January 2024-Sept 2024  
Aishwarya Thiyagarajan, Jan 2024-Sept 2024  
Yumo Yang, January 2024-Sept 2024  
Jessica Liang, January 2024-Sept 2024  
Lulu Wang, January 2024-present  
Claudia Li, January 2024-present  
Christina Su, January 2024-present

## Masters

Zian Zhao MS, January 2019- January 2020  
Michelle Roy, January 2020-May 2020  
Seung Hwan Lee, Sept 2019-December 2019  
Sitong Wang, June 2020-April 2022  
Michelle Quin, January 2021-May 2021  
Padmanabhan Krishnamurthy, Sept 2021- December 2022  
Amrutavarsh Kinagi, Sept 2021-December 2022  
Taha Ozturk, January 2022-May 2022  
Terry Kwon, January 2022-December 2022  
Swapnil Paliwal, January 2022-present  
Je Seung You, September 2022-June 2023  
Karthik Sreedhar, June 2023-present  
Jenny Ma, September 2023-present  
Jiaxin Yang, September 2023-present  
Ajit Sharma Kasturi, September 2023-December 2024  
Tanisha Bisht, September 2023-December 2024  
Kshitij D Gupta, September 2023-December 2024  
Ritika Deshpande, September 2023-December 2024

## High School

Eric Adljer, January 2019-August 2019

## Other:

Han Qiao, Sept 2021-June 2022

## Major New Products, Processes, Designs, or Systems:

1. Metaphoria App (co-authored with my PhD student Katy Gero)  
Available online at:

<http://language-play.com/metaphoria/>

2. Visual Symbols Dictionary (co-authored with my undergraduate researchers)

Available online at:

<http://www.columbia.edu/~eo2419/>

3. Thesaurus Rex: An online style thesaurus (co-authored with my PhD student Katy Gero) Available online at:

<http://language-play.com/thesaurusx/>

4. SymbolFinder code release

[https://columbia-computational-design-lab.github.io/symbol\\_finder\\_web/](https://columbia-computational-design-lab.github.io/symbol_finder_web/)

5. TechTweets: The art of explaining science on social media

<http://language-play.com/tech-tweets/>

6. WordBlender code release

<https://github.com/COLUMBIA-COMPUTATIONAL-DESIGN-LAB/word-blender-web>

7. Hierarchical Summarization of Longform Spoken Dialog

<https://thomasmchen.github.io/uist-2021/>

8. Columbia Public Interest Technology

<https://columbia-pit.com/>

9. ReelFramer - AI Support Tool for Transforming Print News into Short Social Media Videos

<https://sites.google.com/view/reelframer/>

10. Roast App (AI humor generation for images)

<https://apps.apple.com/us/app/roast-app/id6475994837>



