

February 7, 2026

## KRISTIN STEPHENS-MARTINEZ

Duke University  
Department of Computer Science  
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### EDUCATION

*Doctor of Philosophy*, Computer Science (Advisor: Armando Fox)  
University of California, Berkeley December 2017  
Thesis: *Serving CS Formative Feedback on Assessments Using Simple and Practical Teacher-Bootstrapped Error Models*

*Master of Science*, Computer Science (Advisor: Vern Paxson)  
University of California, Berkeley December 2013  
Report: *Towards Sound HTTP Request Causation Inference*

*Bachelor of Science*, Computer Science  
University of Maryland, College Park May 2009  
Summa Cum Laude

### PROFESSIONAL APPOINTMENTS

**Associate Director of Undergraduate Studies** (Duke University) Jul 2024 - Now

**Associate Professor of the Practice** (Duke University) Jan 2024 - Now

**Assistant Professor of the Practice** (Duke University) Dec 2017 - Dec 2023

**Associate Director of Undergraduate Studies** (Duke University) Jul 2021 - Jun 2022

**Co-Instructor**  
CS194-25 with Dawn Song (University of California, Berkeley) Fall 2012

**Head/Graduate/Undergraduate Teaching Assistant**  
See Teaching section for details

### Graduate Student Researcher

*Wrong answers and Hints* with Armando Fox May - Aug 2016, Jan - May 2017  
(University of California, Berkeley)

*KnowMap* with Dawn Song (University of California, Berkeley) May - Dec 2012

Work with Vern Paxson (University of California, Berkeley)

- *BGP Parser* Jan - Aug 2011

- *HTTP Request Causation* Jan - May 2012

*Hoodnets* with Bobby Bhattacharjee (University of Maryland, College Park) Aug 2009 - May 2010

### Undergraduate Student Researcher

*FindBugs* with Bill Pugh (University of Maryland, College Park) May - Aug 2006, Jan - May 2007

**Software Engineer Intern**

|  |                |
|--|----------------|
| Coursera, <i>Quiz Statistics Visualization</i> (Mountain View, CA)           | May - Aug 2014 |
| Stanford edX, <i>Instructor Dashboard</i> (Stanford, CA)                     | May - Aug 2013 |
| Google, <i>Google Doc Team</i> (New York, NY)                                | Jun - Aug 2010 |
| Google, <i>Internationalization Team</i> (Mountain View, CA)                 | Jun - Aug 2009 |
| Microsoft, <i>Excel Developer Team</i> (Redmond, WA)                         | May - Aug 2008 |
| Oil Price Information Services (OPIS), <i>Developer Team</i> (Rockville, MD) | May - Aug 2008 |

**HONORS AND AWARDS****Duke University**

Robert B. Cox Undergraduate Teaching Award - Duke University, Trinity College of Arts & Sciences 2025

**University of California, Berkeley**

|  |           |
|--|-----------|
| Outstanding Graduate Student Instructor                    | 2012-2013 |
| National Science Foundation Graduate Research Fellowship   | 2010      |
| University of California, Berkeley Chancellor's Fellowship | 2010      |

**University of Maryland, College Park**

|   |      |
|---|------|
| Outstanding Undergraduate for The College of Computational, Mathematical, and Physical Sciences | 2009 |
| CS Teaching Excellence Award for an Undergraduate Teaching Assistant                            | 2009 |

**PUBLICATIONS****Journals**

Shao-Heng Ko and **Kristin Stephens-Martinez**. 2025. *Rethinking computing students' help resource utilization through sequentiality*. ACM Transactions on Computing Education. TOCE '25. <https://doi.org/10.1145/3716860>

**Conferences**

Shao-Heng Ko, **Kristin Stephens-Martinez**. 2026. *Connecting Computing Students' External Help Resource Preferences and Internal Help Resource Usage: 2021-2025*. In Proceedings of the 57th ACM Technical Symposium on Computer Science Education. SIGCSE '26.

Alex Chao, Janet Jiang, **Kristin Stephens-Martinez**. 2026. *How Shared Gender Identity with Teaching Assistants Relates to Student Outcomes in an Undergraduate Algorithms Course*. In Proceedings of the 57th ACM Technical Symposium on Computer Science Education. SIGCSE '26.

Shao-Heng Ko, Matthew Zahn, **Kristin Stephens-Martinez**, Yesenia Velasco, Lina Battestilli, and Sarah Heckman. 2025. *Relationships Between Computing Students' Characteristics, Help-Seeking Approaches, and Help-Seeking Behavior in Introductory Courses and Beyond*. ACM Conference on International Computing Education Research. ICER '25

Shao-Heng Ko and **Kristin Stephens-Martinez**. 2025. *Prior What Experience? The Relationship Between Prior Experience and Student Help-Seeking Beyond CS1*. ACM Conference on Innovation and Technology in Computer Science Education. ITiCSE '25.

Shao-Heng Ko, **Kristin Stephens-Martinez**, Matthew Zahn, Yesenia Velasco, Lina Battestilli, and Sarah Heckman. 2025. *Student Perceptions of the Help Resource Landscape*. In Proceedings of the 56nd ACM Technical Symposium on Computer Science Education. SIGCSE '25.

Shao-Heng Ko and **Kristin Stephens-Martinez**. 2024. *The Trees in the Forest: Characterizing Computing Students' Individual Help-Seeking Approaches*. ACM International Computing Education Research. ICER '24. (20.1% acceptance)

Shao-Heng Ko and **Kristin Stephens-Martinez**. 2023. *What Drives Students to Office Hours: Individual Differences and Similarities*. In Proceedings of the 54nd ACM Technical Symposium on Computer Science Education. SIGCSE '23. (35% acceptance)

Anshul Shah, Jonathan Liu, **Kristin Stephens-Martinez**, and Susan H. Rodger. 2021. *The CS1 Reviewer App: Choose Your Own Adventure or Choose for Me!*. In Proceedings of the 26th ACM Conference on Innovation and Technology in Computer Science Education. (pp 331-337) ITiCSE '21. (30.5% acceptance)

**Kristin Stephens-Martinez**. 2021. *A Study of the Relationship Between a CS1 Student's Gender and Performance Versus Gauging Understanding and Study Tactics*. In Proceedings of the 52nd ACM Technical Symposium on Computer Science Education. (pp 679-685) SIGCSE '21. (31% acceptance)

**Kristin Stephens-Martinez** and Armando Fox. 2018. *Giving Hints is Complicated: Understanding the Challenges of an Automated Hint System Based on Frequent Wrong Answers*. ACM Conference on Innovation and Technology in Computer Science Education. (pp. 45-50) ITiCSE '18.

**Kristin Stephens-Martinez**, An Ju, Krishna Parashar, Regina Ongowarsito, Nikunj Jain, Sreesha Venkat, Armando Fox. 2017. *Taking Advantage of Scale by Analyzing Frequent Constructed-Response, Code Tracing Wrong Answers*. ACM International Computing Education Research. (pp. 56-64) ICER '17.

**Kristin Stephens-Martinez**, Marti A. Hearst, and Armando Fox. 2014. *Monitoring MOOCs: Which information sources do instructors value?*. ACM Learning At Scale. (pp. 79-88) ACM L@S '14.

### Posters

Salma El Otmani , Janet Jian, Shao-Heng Ko, and **Kristin Stephens-Martinez**. 2024. *The Relationships Between Modality, Peer Instruction Discussion, and Class Sentiment in Hybrid Courses*. Extended Abstract at ACM SIGCSE Technical Symposium on Computer Science Education. SIGCSE '24. (60% acceptance)

Sadhana Suryadevara and **Kristin Stephens-Martinez**. 2022. *UPIC a Problem-Solving Framework: Understand, Plan, Implement, and Correctness/Debugging*. Extended Abstract at ACM Conference on International Computing Education Research. ICER '22.

Amogh Mannekote, Mehmet Celepkolu, Aisha Chung Galdo, Kristy Elizabeth Boyer, Maya Israel, Sarah Heckman, **Kristin Stephens-Martinez**. 2022. *Don't Just Paste Your Stacktrace: Shaping Discussion Forums in Introductory CS Courses*. Extended Abstract at ACM SIGCSE Technical Symposium on Computer Science Education. SIGCSE '22. (64% acceptance)

**Kristin Stephens-Martinez**, An Ju, Colin Schoen, John DeNero, Armando Fox. 2016. *Identifying Student Misunderstandings using Constructed Responses*. Extended Abstract at ACM Learning At Scale. (pp. 153-156) L@S '16.

**Kristin Stephens**, Shaddi Hasan, and Yahel Ben-David. 2012. *MultiWAN: WAN Aggregation for Developing Regions*. ACM Symposium on Computing for Development. DEV '12.

Brian Cole, Dan Hakim, Dave Hovemeyer, Reuven Lazarus, William Pugh, and **Kristin Stephens**. 2006. *Improving your software using static analysis to find bugs*. In Companion to the 21st ACM SIGPLAN Symposium on Object-Oriented Programming Systems, Languages, and Applications. OOPSLA '06.

### Articles

**Kristin Stephens-Martinez**. 2021. *The CS-Ed Podcast Season 2*. ACM SIGCSE Bulletin, Vol. 53, No. 1, page 6, January 2021.

**Kristin Stephens-Martinez**. 2020. *The CS-Ed Podcast*. ACM SIGCSE Bulletin, Vol. 52, No. 1, page 12, January 2020.

### ***Panels and Special Sessions***

Paul Denny, Juho Leinonen, Viraj Kumar, Steven Gordon, Anastasiia Birillo, Stephen MacNeil, **Kristin Stephens-Martinez**, Mark Liffiton, David H. Smith, Sverrir Thorgeirsson. 2026. *ACM Generative AI Task Force Special Session: Teaching with Generative AI: Tools You Can Use Today*. SIGCSE Technical Symposium on Computer Science Education. SIGCSE '26.

Brett Wortzman, **Kristin Stephens-Martinez**, Mia Minnes, Oluwakemi Ola, Adam Blank. 2023. *Who's Cheating Whom? Changing the Narrative Around Academic Misconduct*. SIGCSE Technical Symposium on Computer Science Education. SIGCSE '23. (39% acceptance)

Dan Garcia, Jim Huggins, Lauren Bricker, Adam Gaweda, David J. Malan, Joël Porquet-Lupine, **Kristin Stephens-Martinez**. 2023. *It Seemed Like a Good Idea at the Time ("Let Me Help You with That" edition)*. SIGCSE Technical Symposium on Computer Science Education. SIGCSE '23. (39% acceptance)

Dan Garcia, Zeldia Allison, Abigail Joseph, David Malan, **Kristin Stephens-Martinez**. 2022. *Technology We Can't Live Without! (COVID-19 edition)*. SIGCSE Technical Symposium on Computer Science Education. SIGCSE '22. (58% acceptance)

**Kristin Stephens-Martinez**, Manuel A. Pérez-Quinones, Nicki Washington, and Leigh Ann DeLyser. 2021. *Where Should We Go From Here? Eliminating Inequities In CS Education, Featuring Guests From The CS-Ed Podcast*. SIGCSE Technical Symposium on Computer Science Education. SIGCSE '21.

### ***Demos***

Yihao Hu, Zhengjie Miao, Zhiming Leong, Haechan Lim, Zachary Zheng, Sudeepa Roy, **Kristin Stephens-Martinez**, and Jun Yang. 2022. *I-Rex: An Interactive Relational Query Debugger for SQL*. Abstract at ACM SIGCSE Technical Symposium on Computer Science Education. SIGCSE '22. (48% acceptance)

### ***Birds of a Feathers***

Kevin Lin, Brian Railing, and **Kristin Stephens-Martinez**. 2021. *How can we make office hours better?*. SIGCSE Technical Symposium on Computer Science Education. SIGCSE '21. (88% acceptance)

**Kristin Stephens-Martinez** and Brian Railing. 2019. *How can we make office hours better?* SIGCSE Technical Symposium on Computer Science Education. Feb 28, 2019. SIGCSE '19.

### ***Artifacts***

**Kristin Stephens-Martinez**. 2018. *Learning Innovation Blog: "Planning a Course Calendar"*. <https://learninginnovation.duke.edu/blog/2018/08/planning-a-course-calendar/>

### ***The CS-Ed Podcast***

My podcast where I talk about teaching computer science with computer science educators. Episodes are 30-45 minute. Listen totals are as of 1/1/26 from Spotify, Apple Podcasts, and YouTube Podcasts. <https://csedpodcast.org/>

| Season | When Published | # Episodes | Total Listens |
|--------|----------------|------------|---------------|
| 1      | 2019-2020      | 6          | 3,053         |
| 2      | 2021           | 6          | 1,902         |
| 3      | 2022-2023      | 12         | 2,148         |
| 4      | 2023-2025      | 12         | 1,525         |

*Blog*

<https://ksm-cs.blogspot.com/> OR <https://ksm-csed.medium.com/>

| Year Posted | # Posts | Total Views* | Topics  |
|-------------|---------|--------------|---|
| 2019        | 9       | 8,011        | Conference reflection, grant writing reflection, how I stay organized, and teaching   |
| 2020        | 8       | 4,286        | My webinar “How to Create and Use Formative Assessments at Scale”, conference reflection, how I organize the teaching staff of my 200+ student class, getting organized |
| 2021        | 8       | 1,416        | Semester theme, conference reflections, teaching reflections, teaching techniques, ITiCSE paper, other podcasts   |
| 2022        | 9       | 2,414        | Grad school application advice, teaching reflection, reflections as conference’s hybrid chair, teaching practices   |
| 2023        | 7       | 3,479        | Teaching practices, research lab practices, reflections as a conference’s hybrid chair, time management   |
| 2024        | 5       | 1,466        | Teaching practices, productivity practices, generative AI + teaching  |
| 2025        | 4       | 619          | Teaching practices, useful metaphors, professor workload  |

\* For all posts on both platforms from that year for all time as of 1/01/26.

**TEACHING***Duke University*

| Date |        | Number  | Title                            | Enrolled | TAs/UTAs |
|------|--------|---|----------------------------------|----------|----------|
| 2026 | Spring | CompSci 216                                     | Everything Data                  | 120      | 2/14     |
| 2025 | Fall   | CompSci 216                                     | Everything Data                  | 77       | 2/9      |
| 2025 | Fall   | CompSci/Educ 171CN                              | Learning How to Learn with AI    | 24       | 1/2      |
| 2025 | Spring | CompSci 216                                     | Everything Data                  | 113      | 3/15     |
| 2025 | Spring | CompSci 590                                     | Computing Education Research     | 8        | 0        |
| 2024 | Fall   | CompSci 216                                     | Everything Data                  | 88       | 2/12     |
| 2024 | Spring | CompSci 216                                     | Everything Data                  | 160      | 2/13     |
| 2023 | Fall   | CompSci 216                                     | Everything Data                  | 82       | 2/10     |
| 2023 | Spring | CompSci 216                                     | Everything Data                  | 234      | 3/21     |
| 2022 | Fall   | CompSci 216                                     | Everything Data                  | 208      | 2/10     |
| 2022 | Fall   | CompSci 290                                     | Computing Education Research     | 15       | 0        |
| 2022 | Spring | CompSci 216                                     | Everything Data                  | 208      | 2.5/10   |
| 2022 | Spring | CompSci 290                                     | Computing Education Research     | 14       | 0        |
| 2021 | Fall   | CompSci 116                                     | Foundations of Data Science      | 38       | 1/2      |
| 2021 | Fall   | CompSci 216                                     | Everything Data                  | 198      | 2/10     |
| 2021 | Spring | CompSci 201                                     | Data Structures and Algorithms   | 276      | 2/31     |
|      |        | (Co-taught with Brandon Fain)                   |                                  |          |          |
| 2021 | Spring | CompSci 216                                     | Everything Data                  | 217      | 2/9      |
|      |        | (Co-taught with Brandon Fain)                   |                                  |          |          |
| 2020 | Spring | CompSci 249                                     | CompSci Ed Research              | 10       | 0        |
|      |        | (Co-taught with Susan Rodger)                   |                                  |          |          |
| 2020 | Spring | CompSci 101                                     | Introduction to Computer Science | 170      | 2/20     |
| 2019 | Fall   | CompSci 249                                     | CompSci Ed Research              | 10       | 0        |
|      |        | (Co-taught with Susan Rodger and Robert Duvall) |                                  |          |          |
| 2019 | Fall   | CompSci 116                                     | Foundations of Data Science      | 32       | 1/3      |
| 2019 | Fall   | CompSci 101                                     | Introduction to Computer Science | 254      | 2/30     |
| 2019 | Spring | CompSci 101 Sec1                                | Introduction to Computer Science | 130      | 2/28     |
|      | Spring | CompSci 101 Sec2                                | Introduction to Computer Science | 94       | -        |
| 2018 | Fall   | CompSci 101 Sec1                                | Introduction to Computer Science | 182      | 2/34     |
|      | Fall   | CompSci 101 Sec2                                | Introduction to Computer Science | 109      | -        |
| 2018 | Spring | CompSci 101 Sec2                                | Introduction to Computer Science | 104      | 2/29     |
|      |        | (Co-taught with Owen Astrachan (Sec 1))         |                                  |          |          |

*Notes:*

Fall 2020: Parental leave

TA - Graduate Teaching Assistant, UTA - Undergraduate Teaching Assistant

***University of California, Berkeley (Co-Instructor)***

| Date |      | Number   | Title  | Enrolled | UTAs |
|------|------|----------|--|----------|------|
| 2012 | Fall | CS194-25 | Special Topics: Build Your Next Gen Education Technology<br>(Co-taught with Dawn Song) | 13       | 0    |

***University of California, Berkeley (Graduate Teaching Assistant)***

| Date |        | Number | Title  |
|------|--------|--------|--|
| 2016 | Fall   | CS169  | Software Engineering (Armando Fox, Head Grad TA of 5 Undergrad TAs)    |
|      | Spring | CS61A  | The Structure and Interpretation of Computer Programs (Paul Hilfinger) |
| 2015 | Fall   | CS61A  | The Structure and Interpretation of Computer Programs (John DeNero)    |
| 2011 | Fall   | EE122  | Introduction to Communication Networks (Scott Shenker)                 |

***University of Maryland, College Park (Graduate Teaching Assistant)***

| Date |      | Number   | Title  |
|------|------|----------|--|
| 2009 | Fall | CMSC198K | The Science Behind Computing (Bobby Bhattacharjee & Samir Khuller) |

***University of Maryland, College Park (Undergraduate Teaching Assistant)***

| Date |        | Number  | Title                                     |
|------|--------|---------|---|
| 2008 | Spring | CMSC131 | Object Oriented Programming I (Jan Plane) |
| 2007 | Fall   | CMSC106 | Intro to C Programming (Jan Plane)        |

***Course and Curriculum Development***

**Kristin Stephens-Martinez** *Learning How to Learn With AI*. First-Year Only Course. 2025. CompSci171CN (cross-listed with Educ). Duke University.

**Kristin Stephens-Martinez** *Computing Education Research*. Graduate Course. 2025. CompSci590. Duke University.

Susan Rodger, **Kristin Stephens-Martinez**, and Yesenia Velasco (alphabetical order). And guest Esther Brown. *Practical Python: Start Your Programming Journey*. Online 4-week Course. 2025. Coursera.

**Kristin Stephens-Martinez** *Computing Education Research*. Course. 2022. CompSci290. Duke University.

Robert Duvall, Susan Rodger, and **Kristin Stephens-Martinez** (alphabetical order). *Curriculum for Undergraduate Teaching Assistant Training*. 2019. CompSci249. Duke University.

Ji Yeon Kim, Yesenia Velasco, and **Kristin Stephens-Martinez**. *Auto-grader Unittests for Compsci101 Assignments*. 2018. CompSci101. Duke University.

**Kristin Stephens-Martinez**. *Build Your Next Gen Education Technology* Course. 2012. CS194-25. University of California, Berkeley.

**GRANTS**

“AI Learning Companion for Applied Machine Learning,” The Center for Computational Thinking, Duke University, \$21,322, July 2024 - June 2025 (with Brandon Fain and Robert Duvall).

“Collaborative Research: Characterizing and empowering student success when traversing the academic help landscape,” #2336805, National Science Foundation: Division of Undergraduate Education (DUE), \$700,000, May 2024 - April 2027 (with Yesenia Velasco, Sarah Heckman, and Lina Battestilli). **Stephens-Martinez part \$324,986.**

REU Supplement to “CUE: Collaborative Research: Effective Peer Teaching Across Computing Pathways,” #1934965, National Science Foundation: Improving Undergraduate STEM Education: Computing in Undergraduate Education (IUSE: CUE), \$5,000, Summer 2021.

REU Supplement to “CUE: Collaborative Research: Effective Peer Teaching Across Computing Pathways,” #1934965, National Science Foundation: Improving Undergraduate STEM Education: Computing in Undergraduate Education (IUSE: CUE), \$10,000, Summer 2020.

“III: Small:HNRQ: Helping Novices Learn and Debug Relational Queries,” #2008107, National Science Foundation: IIS, \$500,000, October 2020 - September 2023 (with Jun Yang and Sudeepa Roy).

“CUE: Collaborative Research: Effective Peer Teaching Across Computing Pathways,” #1934965, National Science Foundation: Improving Undergraduate STEM Education: Computing in Undergraduate Education (IUSE: CUE), \$300,000, January 2020 - June 2023 (with Sarah Heckman, Lina Battestilli, Anna Howard, Kristy Boyer, Maya Israel, Ketan Mayer-Patel, David Gotz, and Karen Murphy). **Stephens-Martinez part \$76,055.**

“The CS-Ed Podcast,” SIGCSE Special Projects Grants, \$5,000, Year of 2019. (acceptance rate 15%)

**STUDENTS****Duke University***PhD's*

- |                  |                    |
|------------------|--------------------|
| 1. Owen Sizemore | Aug 2025 - Current |
| 2. Shao-Heng Ko  | Aug 2022 - Current |

*Master's*

- |  |                     |
|--|---------------------|
| 1. Alex Chao - “How Shared Gender Identity with TAs Relates to Student Outcomes” | Spring 2025         |
| 2. Ji Yeon Kim - “Student Paths in CS1: Case Studies of Initial Poor Performers” | Aug 2018 - May 2019 |

*Post Bachelor's*

- |  |                        |
|--|------------------------|
| 1. Jonathan Liu                              |                        |
| • “Ecological Belonging Intervention in CS1” | Fall 2024, Spring 2025 |
| • “CS101 Reviewer App”                       | Fall 2020, Spring 2021 |

*Undergrad*

- |   |                          |
|---|--------------------------|
| 1. Michelle Brown   |                          |
| • “Neurodivergence and Universal Design for Learning in Duke CS Courses”                    | Fall 2025, Spring 2026   |
| • “Duke Chat Bot”   | Fall 2024                |
| 2. Abby Melton, “Open-Ended Autograders for an Introductory Python”                         | Summer 2025, Spring 2026 |
| 3. Ricardo Urena, “Relationships between student learning beliefs and help-seeking in CS”   | Summer 2025, Spring 2026 |
| 4. Alex Pool, “Opting In (or Out): Patterns of Student Participation in Optional Groupwork” | Fall 2025, Spring 2026   |
| 5. Amir Aref (Berea College), “Open-Ended Autograders for an Introductory Python”           | Summer 2025              |
| 6. Bryanna Erickson (Berea College)   |                          |
| • “Open-Ended Autograders for Introductory Python”  | Summer 2025              |

7. Jerry Zou, “Open-Ended Autograders for an Introductory Python” Summer 2025
8. Zehavi Rodriguez, “Demographic factors and self-assessment trajectories in intro CS” Summer 2025
9. Kevin Alvarenga
  - “Duke Chat Bot” Fall 2025
  - “Open-Ended Autograders for Introductory Python” (DREU) Summer 2024
10. Nikita Agarwal (Univ. of Wisconsin-Madison)
  - “Open-Ended Autograders for Introductory Python” (DREU) Summer 2024
11. Arunima Suri (Univ. of IL Urbana-Champaign)
  - “Open-Ended Autograders for Introductory Python” (DREU) Summer 2024
12. Divya Nataraj
  - “Exploring How Diversity and Other Factors Relate to Student Performance and Persistence in CS” (Independent Study, Thesis, Graduate with Highest Distinction) Spring 2024
  - “Diversity in Undergraduate Computing” (Independent Study, UR2PhD Program) Fall 2023
13. Janet Jiang (Graduate with Highest Distinction)
  - “Ecological Belonging Intervention in CS1” Fall 2024, Spring 2025
  - “Peer Instruction in Hybrid Courses” (Independent Study) Spring 2024
  - “Diversity in Undergraduate Computing” (Independent Study, UR2PhD Program) Fall 2023
  - “Effectiveness of Hybrid Classes” (CS+ Program) Summer 2023
14. Jerry He, “Effectiveness of Hybrid Classes” (CS+ Program) Summer 2023
15. Salma El Otmami, “Effectiveness of Hybrid Classes” (CS+ Program) Summer 2023
16. Rhea Tejwani, “Understanding the Efficacy of Office Hours in CS1”
  - (Thesis, Graduate with Distinction) Spring 2023
17. Sara Mehta, “Factors that Influence Attitudes Toward Group Work in CS Classrooms”
  - (Independent Study, Thesis, Graduate with Distinction) Fall 2022, Spring 2023
18. Belle Xu
  - “Understanding the Association between Student Behavior on Formative Assessments and Performance on Summative Assessments” (Independent Study, Thesis, Graduate with Distinction) Fall 2022, Spring 2023
  - “CS101 Reviewer App” (CS+ Program, Independent Study) Summer 2021, Spring 2022
19. Bianca Saputra, “What CS1 Formative Assessments Tell Us”
  - (Thesis, Graduate with Distinction) Fall 2021, Spring 2022
20. Sona Suryadevara
  - “Analyzing Office Hours Through the Lens of Gender and the Problem-Solving Process” (Thesis, Graduate with Distinction) Fall 2021, Spring 2022
  - “CS101 Reviewer App” (CS+ Program) Summer 2021
21. Brian Janger, “CS101 Reviewer App” (CS+ Program) Summer 2021
22. Manith Luthria, “CS101 Reviewer App” (CS+ Program) Summer 2021
23. Eric Young
  - Duke Innovation & Entrepreneurship Certificate Program Summer 2021
  - “WWPD: What Will Python Do?” (CS+ Program) Summer 2020
24. Andrew Elcock, “CS101 Reviewer App” (Independent Study) Spring 2021
25. Anshul Shah, “CS101 Reviewer App” (Independent Study) Spring 2020, Fall 2020, Spring 2021
26. Benjamin Stewart, “WWPD: What Will Python Do?” (CS+ Program) Summer 2020
27. Frank Tang, “WWPD: What Will Python Do?” (CS+ Program) Summer 2020
28. Jaylyn Barbee, “Breadcrumbs: Analyzing Classroom Data” (CS+ Program) Summer 2019
29. Lucian Li, “Breadcrumbs: Analyzing Classroom Data” (CS+ Program) Summer 2019
30. Man-Lin Hsiao, “Breadcrumbs: Analyzing Classroom Data” Summer 2018
31. Liam Pulsifer, “Breadcrumbs: Analyzing Classroom Data” Summer 2018

*PhD, Preliminary Exam Committee Member*

1. Yihao Hu (advisor: Jun Yang) Spring 2023
2. Zhengjie Miao (advisor: Sudeepa Roy) Spring 2020



*PhD, Research Initial Project Committee Member*

- |   |             |
|---|-------------|
| 1. Yihao Hu (advisor: Jun Yang)         | Spring 2021 |
| 2. Zhengjie Miao (advisor: Sudeepa Roy) | Spring 2018 |

*Master's Committee Member*

- |                                       |             |
|---------------------------------------|-------------|
| 1. Tiangang Chen (advisor: Jun Yang)  | Spring 2020 |
| 2. Yuxi Yang (advisor: Mary Cummings) | Fall 2019   |

**University of California, Berkeley (All Undergrad)**

- |   |                           |
|---|---------------------------|
| 1. Anwar Baroudi, "Do students like and remember hints?"                | Spring 2018               |
| 2. Maia Rosengarten, "Do students like and remember hints?"             | Spring 2018               |
| 3. Kavi Gupta, "Delivering Hints to Students Based on Wrong Answers"    | Spring 2018               |
| 4. Nikunj Jain  | Fall 2016 - Summer 2017   |
| • "Quantitative Analysis of Code-Tracing Wrong Answers"                 |                           |
| • "Delivering Hints to Students Based on Wrong Answers"                 |                           |
| 5. Sreesha Venkat   | Fall 2016, Spring 2017    |
| • "Qualitative Analysis of Code-Tracing Wrong Answers"                  |                           |
| • "Delivering Hints to Students Based on Wrong Answers"                 |                           |
| 6. Regina Ongowarsito   | Summer 2016 - Spring 2017 |
| • "Qualitative Analysis of Code-Tracing Wrong Answers"                  |                           |
| • "Delivering Hints to Students Based on Wrong Answers"                 |                           |
| 7. Krishna Parashar   | Summer 2016 - Spring 2017 |
| • "Qualitative Analysis of Code-Tracing Wrong Answers"                  |                           |
| • "Delivering Hints to Students Based on Wrong Answers"                 |                           |
| 8. Steven Chi, "Predicting Struggling Students from Student Answers"    | Spring 2016, Summer 2016  |
| 9. Spenser Chiang, "OK.py Feature: Hints"                               | Spring 2016               |
| 10. Hayden Sheung, "OK.py Feature: Hints"                               | Spring 2016               |
| 11. Kelly Liu, "Qualitative Analysis of Code-Tracing Wrong Answers"     | Spring 2016               |
| 12. Hannah Huang, "Qualitative Analysis of Code-Tracing Wrong Answers"  | Fall 2015, Spring 2016    |
| 13. Michelle Tian, "Qualitative Analysis of Code-Tracing Wrong Answers" | Fall 2015                 |

**ACADEMIC SERVICE****Duke University**

- |   |                |
|---|----------------|
| • Computer Science Advisor                                | Aug 2018 - Now |
| – 2025-2026 year: 35 students                             |                |
| – 2024-2025 year: 36 students                             |                |
| – 2023-2024 year: 32 students                             |                |
| – 2022-2023 year: 19 students                             |                |
| – 2021-2022 year: 20? students                            |                |
| – 2020-2021 year: 38 students                             |                |
| – 2019-2020 year: 31 students                             |                |
| – 2018-2019 year: 27 students                             |                |
| • College Advisor   | Aug 2018 - Now |
| – 2025-2026 year: 2 students                              |                |
| – 2024-2025 year: 6 students                              |                |
| – 2023-2024 year: 6 students                              |                |
| – 2022-2023 year: 6 students                              |                |
| – 2021-2022 year: 7 students                              |                |
| – 2020-2021 year: 7 students                              |                |
| – 2019-2020 year: 6 students                              |                |
| – 2018-2019 year: 3 students                              |                |
| • The AI at Duke Pillar Advisory Committee - Life with AI | Aug 2025 - Now |
| • Duke Century Courses Committee                          | Dec 2024 - Now |
| • Computer Science Dept. Undergraduate Affairs Committee  | Aug 2022 - Now |

- Computer Science Dept. Teaching Excellence Committee Aug 2024 - Now
- Duke SPIRE Mentor Aug 2023 - Now
- Computer Science Dept. Chair of Undergraduate Affairs Committee Aug 2024 - May 2025
- Computer Science Dept. Assessment Liaison Aug 2023 - Dec 2024
- Computer Science Dept. Faculty Search Committee Lecturer Aug 2022 - Dec 2022
- Computer Science Dept. DUS Assistant Hiring Committee Jan 2022 - May 2022
- Computer Science Dept. Undergraduate Coordinator Hiring Committee Jan 2022 - May 2022
- Computer Science Dept. Space Committee July 2020 - May 2021
- Computer Science Dept. Faculty Search Committee PoP Aug 2019 - May 2020
- Computer Science Dept. Communications Committee Dec 2018 - May 2020

### Conference

- SIGCSE Technical Symposium Hybrid Experience Chair 2022, 2023, 2024\*
- 2024\* - Advisory role
  - 2023 - Attendees: 200 online, 1,354 in-person, 1,554 total
  - 2022 - Attendees: 632 online, 788 in-person, 1,544 total
- SIGCSE Technical Symposium Reviewer 2019, 2020, 2021, 2022, 2024, 2025
- 2025 - Outstanding reviewer
- ICER Code of Conduct/Ethics Facilitator 2021, 2022
- ICER Reviewer 2021, 2024
- Learning@Scale Reviewer 2017, 2020

### Grant Proposal Reviewer

- National Science Foundation Panelist for CISE 2018, 2021, 2025

### External

- Moderator and Online Social Gathering Coordinator for cs-teaching Slack April 2021 - Jan 2026
- CRA-WP Table Mentor for Teaching Track Faculty Workshop March 2021

### University of California, Berkeley

- EECS Peers
  - Member Aug 2015 - May 2017
  - CS-Coordinator and Founder Aug 2013 - May 2015
- Graduate and Undergraduate Mentoring Jan 2010 - May 2017
  - 10 graduate and 13 undergraduate students
- Teaching Conference for First-Time GSIs, Session Facilitator Jan 13, 2017
- Admissions Committee, Education Area Reader 2016, 2017
- Admissions Committee, Diversity Reader 2013, 2014
- Women In Computer Science and Electrical engineering (WICSE), Co-President Aug 2012 - May 2013

### University of Maryland, College Park

- Association for Women in Computing (AWC)
  - Co-Chair Aug 2008 - May 2009
  - Treasurer Aug 2007 - May 2008
- CS Ambassador Aug 2008 - May 2009
- PRIME Scholar Aug 2006 - Dec 2007

### TALKS

- Teaching in Age of AI working group, Guest Speaker, Duke University, Jan 16, 2026.
- Bass Seminar “AI Invades the Classroom: What’s an Instructor to Do?” , Duke University, Nov 7, 2025.
- The Art & Science of Teaching Series: Designing for Deep Learning, Duke University, Oct 7, 2025.
- Jupyter Notebooks at NCShare, Online, Nov 14, 2023.

- Presented 2 peer instructions at “Spiffy Peer Instruction Questions.” SIGCSE TS, Toronto, Canada, March 17, 2023.
- Jupyter Notebooks at NCShare, Online, Feb 21, 2023.
- “How I got to where I am today,” guest speaker for Women in Tech seminar at Georgia Tech’s OMSCS program, Online, Sep 19, 2022.
- “Women in Tech,” guest speaker for Duke Association for Business Oriented Women (BOW), Online, Sep 9, 2022.
- “Using Data Science in CS Education & What is a Teaching Professor?,” University of Illinois Computer Science, Online, March 29, 2022.
- “Teaching Data Science in a Flipped Classroom by Using Data Science,” Berkeley EECS, Online, Mar 9, 2022.
- “A Scaled Class is a Rich Class: How to approach large class data sets to drive class improvements,” CS Colloquium Series, Northwestern McCormick School of Engineering, Online, May 26, 2021.
- “A Study of the Relationship Between a CS1 Student’s Gender and Performance Versus Gauging Understanding and Study Tactics,” ACM Technical Symposium on Computer Science Education (SIGCSE), Online, Mar 18, 2021.
- “Learning at Scale with Kristin Stephens-Martinez,” #CSK8 Podcast with Jared O’Leary, Internet, Sept 28, 2020, <https://jaredoleary.com/csk8feed/51>
- “How to Create and Use Formative Assessments at Scale,” Codio Webinar, Internet, Jul 14, 2020. <https://www.codio.com/webinar-how-to-create-and-use-formative-assessments-at-scale>
- “Insights from Having Students Predict their Exam Grades,” Behavioral Research Informing Teaching Excellence (BRITE), Duke University, Durham, NC, Mar 4, 2020.
- “It’s a Marathon, Not a Sprint: Balancing Work and Life in Grad School and Beyond,” with James Mickens by CRA-WP, Grace Hopper Celebration, Orlando, FL, Oct 2, 2019.
- “Giving Hints is Complicated: Understanding the Challenges of an Automated Hint System Based on Frequent Wrong Answers,” Project Search Pre-Orientation undergraduate program, Duke University, Durham, NC, Aug 7, 2019.
- “How Can Data from Large Classrooms Improve Learning?,” Behavioral Research Informing Teaching Excellence (BRITE), Duke University, Durham, NC, Dec 4, 2018.
- “Teaching as a Career,” Compsci 701: Introduction to Graduate Study, Duke University, Durham, NC, Nov 9, 2018.
- “Giving Hints is Complicated: Understanding the Challenges of an Automated Hint System Based on Frequent Wrong Answers,” Project Search Pre-Orientation undergraduate program, Duke University, Durham, NC, Aug 13, 2018.
- “Giving Hints is Complicated: Understanding the Challenges of an Automated Hint System Based on Frequent Wrong Answers,” ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE), Larnaca, Cyprus, Jul 2, 2018.
- “Taking Advantage of Scale by Analyzing Frequent Constructed-Response, Code Tracing Wrong Answers,” ACM International Computing Education Research (ICER), Tacoma, WA, USA, Aug 18, 2017.
- “Monitoring MOOCs: Which information sources do instructors value?” ACM Learning At Scale (L@S), Atlanta, GA, USA, Mar 4, 2014.

**PANELS**

- “Who’s Cheating Whom? Changing the Narrative Around Academic Misconduct.” (Moderator) SIGCSE TS, Toronto, Canada, March, 17, 2023.
- “It Seemed Like a Good Idea at the Time (“Let Me Help You with That” edition).” SIGCSE TS, Toronto, Canada, March, 16, 2023.
- “Technology We Can’t Live Without! (COVID-19 edition).” SIGCSE TS, Providence, RI, March 4, 2022.
- “Where Should We Go From Here? Eliminating Inequities In CS Education, Featuring Guests From The CS-Ed Podcast.” (Moderator) SIGCSE TS, Online, March 16, 2021.
- “CS Instruction Post-Quarantine,” Emerging Trends in Computer Science, Online, June 28, 2021.
- “David M. Rubenstein Scholars Spotlight Series,” Duke University, July 3, 2019.

**ADDITIONAL BROADENING PARTICIPATION IN COMPUTING**

- Faculty Lunches (flunch) with students
  - 2025: 11
  - 2024: 1
  - 2023: 3
  - 2022: 4
  - 2021: 1 (Covid-19)
  - 2020: 4 (Covid-19, parental leave)
  - 2019: 7
  - 2018: 8
- The CS-Ed Podcast inspired the podcast *The Rest is Teaching: A Podcast for Computing Education Practitioners & Researchers.* 2025
- Events Attended
  - Grace Hopper 2009, 2012, 2018, 2019, 2020, 2021
  - Duke CS Discussion Panel on “Picture a Scientist” Movie November 2020
  - Tapia 2014
- Mentor female Ph.D. student from University of Florida 2020-2021
- Undergraduate Teaching Assistant (UTA) Diversity Initiative Fall 2020
- Coordinated Computer Science Education Research Reading Group Summer 2020

**MEMBERSHIPS**

Special Interest Group on Computer Science Education (SIGCSE) 2018 - Now  
 Association for Computing Machinery (ACM) 2008 - Now