KRISTIN STEPHENS-MARTINEZ

Duke University
Phone: (919) 660-6581
Department of Computer Science
Email: ksm@cs.duke.edu
ORC ID: 0000-0002-3058-7418

Durham, NC 27708-0129

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

HONORS AND AWARDS

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

Conferences

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

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, Zelda 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-Quiñones, 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. (56% acceptance)

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. 2023-2024. *The CS-Ed Podcast*. Season 4. Duke University. A podcast where I talk about teaching computer science with computer science educators. Episodes are 30-45 minute long. 312 listens for 3 episode as of 04/1/24 from Spotify, Apple Podcasts, and Google Podcasts. https://csedpodcast.org/

Kristin Stephens-Martinez. 2022-2023. *The CS-Ed Podcast*. Season 3. Duke University. A podcast where I talk about teaching computer science with computer science educators. Theme: "What's Next?" Episodes are 30-45 minute long. 1,889 listens across 12 episodes as of 04/01/24 from Spotify, Apple Podcasts, and Google Podcasts. https://csedpodcast.org/

Kristin Stephens-Martinez. 2021. The CS-Ed Podcast. Season 2. Duke University. A podcast where I talk about teaching computer science with computer science educators. Theme: "Where should we go from here?" 6 episode series of 30-45 minute episodes. 1,589 listens across 6 episodes as of 04/1/24 from Spotify, Apple Podcasts, and Google Podcasts. https://csedpodcast.org/

Kristin Stephens-Martinez. 2019-2020. *The CS-Ed Podcast*. Season 1. Duke University. A podcast where I talk about teaching computer science with computer science educators. 6 episode series of 30-45 minute episodes. 2,575 listens as of 04/1/24 from Spotify, Apple Podcasts, and Google Podcasts. https://csedpodcast.org/

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

 \underline{Blog} https://ksm-cs.blogspot.com/ OR https://ksm-csed.medium.com/

Year Posted	# Posts	Total Views*	Topics
2019	9	6,169	Conference reflection, grant writing reflection, how I stay
			organized, and teaching
2020	8	2,894	My webinar "How to Create and Use Formative Assess-
			ments at Scale", conference reflection, how I organize the
			teaching staff of my 200+ student class, getting organized
2021	8	845	Semester theme, conference reflections, teaching reflec-
			tions, teaching techniques, ITiCSE paper, other podcasts
2022	9	1,285	Grad school application advice, teaching reflection, reflec-
			tions as conference's hybrid chair, teaching practices
2023	7	554	Teaching practices, research lab practices, reflections as a
			conference's hybrid chair, time management
2024	1	71	Teaching practices

^{*} For all posts from that year for all time as of 04/01/24.

TEACHING

Duke	Universit	y			
Date)	Number	Title	Enrolled	TAs/UTAs
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	2 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 $101 \text{ Sec} 2$	Introduction to Computer Science	94	-
2018	Fall	Compsci 101 Sec1	Introduction to Computer Science	182	2/34
	Fall	Compsci $101 \text{ Sec} 2$	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		\mathbf{Number}	Title	Enrolled	\mathbf{UTAs}
2012	Fall	CS194-25	Special Topics: Build Your Next Gen Education Technology	13	0
		(Co-tau	ght with Dawn Song)		

$University\ of\ California,\ Berkeley\ (Graduate\ Teaching\ Assistant)$

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
Date	runnber	тиле

2009 Fall CMSC198K The Science Behind Computing (Bobby Bhattacharjee & Samir Khuller)

University of Maryland, College Park (Undergraduate Teaching Assistant)

Date		${f Number}$	Title
2008	Spring	CMSC131	Object Oriented Programming I (Jan Plane)
2007	Fall	CMSC106	Intro to C Programming (Jan Plane)

Course and Curriculum Development

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. Curriculum for "Build Your Next Gen Education Technology. 2012. CS194-25. University of California, Berkeley.

GRANTS

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. Shao-Heng Ko

Aug 2022 - Current

Master's

1. Ji Yeon Kim - "Student Paths in CS1: Case Studies of Initial Poor Performers" Aug 2018 - May 2019

Post Bachelor's

1. Jonathan Liu, "CS101 Reviewer App"

Fall 2020, Spring 2021

Undergrad

- 1. Divya Nataraj, "Diversity in Undergraduate Computing"
 - (Independent Study, UR2PhD Program)

Fall 2023

- 2. Janet Jiang
 - "Diversity in Undergraduate Computing" (Independent Study, UR2PhD Program) Fall 2023
 - "Effectiveness of Hybrid Classes" (CS+ Program)

Summer 2023

3. Jerry He, "Effectiveness of Hybrid Classes" (CS+ Program)

Summer 2023 Summer 2023

- 4. Salma El Otmani, "Effectiveness of Hybrid Classes" (CS+ Program)
- 5. Rhea Tejwani, "Understanding the Efficacy of Office Hours in CS1"

- Spring 2023
- (Thesis, Graduate with Distinction)
 6. Sara Mehta, "Factors that Influence Attitudes Toward Group Work in CS Classrooms"
 - (Independent Study, Thesis, Graduate with Distinction)
- Fall 2022, Spring 2023

Spring 2016, Summer 2016

7 Dalla V.	
7. Belle Xu"Understanding the Association between Student Behavior on Form	ativo
Assessments and Performance on Summative Assessments"	ative
(Independent Study, Thesis, Graduate with Distinction)	Eall 2022 Crains 2022
,	Fall 2022, Spring 2023 Summer 2021, Spring 2022
• "CS101 Reviewer App" (CS+ Program, Independent Study)	Summer 2021, Spring 2022
8. Bianca Saputra, "What CS1 Formative Assessments Tell Us"	
• (Thesis, Graduate with Distinction)	Fall 2021, Spring 2022
9. 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
10. Brian Janger, "CS101 Reviewer App" (CS+ Program)	Summer 2021
11. Manith Luthria, "CS101 Reviewer App" (CS+ Program)	Summer 2021
12. Eric Young	Summer 2021
• Duke Innovation & Entrepreneurship Certificate Program	Summer 2021
• "WWPD: What Will Python Do?" (CS+ Program)	Summer 2020
13. Andrew Elcock, "CS101 Reviewer App" (Independent Study)	Spring 2021
	2020, Fall 2020, Spring 2021
15. Benjamin Stewart, "WWPD: What Will Python Do?" (CS+ Program)	Summer 2020
16. Frank Tang, "WWPD: What Will Python Do?" (CS+ Program)	Summer 2020
17. Jaylyn Barbee, "Breadcrumbs: Analyzing Classroom Data" (CS+ Progra	
18. Lucian Li, "Breadcrumbs: Analyzing Classroom Data" (CS+ Program)	Summer 2019
19. Man-Lin Hsiao, "Breadcrumbs: Analyzing Classroom Data"	Summer 2018
20. Liam Pulsifer, "Breadcrumbs: Analyzing Classroom Data"	Summer 2018
PhD, Preliminary Exam Committee Member	Q
1. Alex Hicks (Virginia Tech, advisors: Cliff Shaffer and Stephen Edwards)	Spring 2024
2. Yihao Hu (advisor: Jun Yang)	Spring 2023
3. 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
2. Tuxi Tang (advisor. Mary Cummings)	Fan 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
	ran 2010, 5pring 2017
• "Qualitative Analysis of Code-Tracing Wrong Answers"	
"Delivering Hints to Students Based on Wrong Answers" C. Basina Outgraphysits.	C
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"	
	G : 0016 G 0016

8. Steven Chi, "Predicting Struggling Students from Student Answers"

- Member

- CS-Coordinator and Founder

 $\begin{array}{c} {\rm Aug} \ 2015 \ \hbox{- May} \ 2017 \\ {\rm Aug} \ 2013 \ \hbox{- May} \ 2015 \end{array}$

 Spenser Chiang, "OK.py Feature: Hints" Hayden Sheung, "OK.py Feature: Hints" Kelly Liu, "Qualitative Analysis of Code-Tracing Wrong Answers" Hannah Huang, "Qualitative Analysis of Code-Tracing Wrong Answers" Michelle Tian, "Qualitative Analysis of Code-Tracing Wrong Answers" 	Spring 2016 Spring 2016 Spring 2016 Fall 2015, Spring 2016 Fall 2015
ACADEMIC SERVICE	
Duke University	
• Computer Science Dept. Assessment Liaison	Aug 2023 - Now
Computer Science Advisor	Aug 2018 - Now
 2023-2024 year: 35 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
 2023-2024 year: 5 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 	
• Computer Science Dept. Undergraduate Affairs Committee	Aug 2022 - Now
• Computer Science Dept. Faculty Search Committee Lecturer	Aug 2022 - Dec 2022
Computer Science Dept. DUS Assistant Hiring Committee Computer Science Dept. Undergraduate Coordinates Hiring Committee	Jan 2022 - May 2022
 Computer Science Dept. Undergraduate Coordinator Hiring Committee Computer Science Dept. Space Committee 	Jan 2022 - May 2022 July 2020 - May 2021
• Computer Science Dept. Space Committee • 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
ICER Code of Conduct/Ethics Facilitator	2019, 2020, 2021, 2022, 2024 2021, 2022
ICER Reviewer	2021, 2024
Learning@Scale Reviewer	2017, 2020
Grant Proposal Reviewer	
National Science Foundation Panelist for CISE	2018, 2021
External	
Online Social Gathering Coordinator for CS Teacher Group	April 2021 - Now
CRA-WP Table Mentor for Teaching Track Faculty Workshop	March 2021
University of California, Berkeley • EECS Peers	

• 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

• 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

- $\bullet\,$ Faculty Lunches (flunch) with students
 - -2024:1
 - -2023: 3
 - -2022:4
 - 2021: 1 (Covid-19)
 - 2020: 4 (Covid-19, parental leave)
 - -2019:7
 - -2018:8
- Events Attended
 - Grace Hopper

- Duke CS Discussion Panel on "Picture a Scientist" Movie

- Tapia

• Mentor female Ph.D. student from University of Florida

• Undergraduate Teaching Assistant (UTA) Diversity Initiative

• Computer Science Education Research Reading Group

2009, 2012, 2018, 2019, 2020, 2021

November 2020

2014

2020-2021

Fall 2020

ran 2020

Summer 2020

MEMBERSHIPS

Special Interest Group on Computer Science Education (SIGCSE) Association for Computing Machinery (ACM)

2018 - Now

2008 - Now