

## Colleen M. Lewis

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### Academic Appointments

McGregor-Girand Associate Professor of Computer Science, Harvey Mudd College – 2018-present  
Teaching Faculty at the Race and Equity Center, USC Rossier School of Education – 2018-present  
Assistant Professor of Computer Science, Harvey Mudd College – 2012-2018

### Education

University of California, Berkeley, Ph.D. in Science and Mathematics Education – 2012

University of California, Berkeley, M.S. in Computer Science – 2009

University of California, Berkeley, B.S. in Electrical Engineering and Computer Science – 2005

### Awards/Honors

Best Paper Award in the Research Track at SIGCSE – 2020

Inaugural McGregor-Girand Endowed Chair – 2018

Denice Denton Emerging Leader Award from AnitaB.org – 2016

Mentoring Award from the National Center for Women in Information Technology – 2015

Inaugural Best Paper Award at the International Computing Education Research Workshop – 2012

### Funding

NSF – Co-PI (\$2,999,995; #1758455) – 2018-2023

Math for America LA: Elevating Math and CS Instruction through Teacher Leadership

NSF – Co-PI (\$1,876,922; #1821136) – 2018-2023

Developing Evidence-based Best Practices for Broadening Participation in Computing Education

Microsoft Corporation – PI (Unsolicited gift; Amount confidential) – 2017-present

Support for CSTeachingTips.org from Microsoft Learning

Kapor Center for Social Impact – PI (\$10,000) – 2017-present

SMASH Participants' Perceptions of CS, Computer Scientists, and their Classroom

Google – Co-PI (\$25,000) – 2016-present

Computer Science for High School (CS4HS)

Harvey Mudd College Entrepreneurial Network – PI (\$190,000) – 2014-present

Computer Science Summer Start-up

NSF – PI (\$771,095; #1339404) – 2013-2017

Import PCK: What 10K Teachers Can Learn from Teachers with 10K Hours of Experience

### Journal Articles

Shah, N. & Lewis, C. M. (2019). Amplifying and Attenuating Inequity in Collaborative Learning: Toward an Analytical Framework. *Cognition and Instruction*.

## Journal Articles (continued)

- Lewis, C. M. (2017). Twelve tips for creating a culture that supports all students in computing. *ACM Inroads*, 8(4), 17-20.
- Lewis, C. M. (2011). Is pair programming more effective than other forms of collaboration for young students? *Computer Science Education*. 21(2). 105-134.
- Crutchfield, O. S., Harrison, C. D., Haas, G., Garcia, D. D., Humphreys, S. M., Lewis, C. M., & Khooshabeh, P. (2011). Berkeley Foundation for Opportunities in Information Technology (BFOIT): A Decade of Broadening Participation. *Transactions on Computing Education*. 11(3). Article 15. 1-24.
- Titterton, N., Lewis, C. M., & Clancy, M. (2010). Experiences with lab-centric instruction. *Computer Science Education (Ed. Y. Ben-David Kolikant)* 20(2), 79-102.

## Handbook Chapters

- Lewis, C. M. (2019). A Case Study of Qualitative Methods. In S. Fincher & A. Robins, *The Cambridge Handbook of Computing Education Research*. Cambridge University Press.
- Lewis, C. M., Clancy, M., & Vahrenhold, J. (2019). Student knowledge and misconceptions. In S. Fincher & A. Robins, *The Cambridge Handbook of Computing Education Research*. Cambridge University Press.
- Lewis, C. M., Shah, N., & Falkner, K. (2019). Equity and diversity. In S. Fincher & A. Robins, *The Cambridge Handbook of Computing Education Research*. Cambridge University Press.

## Book Chapters

- Lewis, C. M. (2017). Good (and bad) reasons to teach all students computer science. In S. B. Fee, A. M. Holland-Minkley, & T. E. Lombardi, *New Directions for Computing Education: Embedding Computing Across Disciplines*. New York: Springer.

## Peer-Reviewed, Archived, Conference Publications

- Nguyen, A. & Lewis, C. M. (2020). Competitive Enrollment Policies in Computing Departments Negatively Predict First-Year Students' Sense of Belonging, Self-Efficacy, and Perception of Department. *ACM SIGCSE Bulletin*. 51(1). *Best Paper Award in the Research Track*.
- Lim, K. & Lewis, C. M. (2020). Metrics of Success for High School CSforAll Initiatives: Demographic Patterns from 2003 to 2018 on Advanced Placement Computer Science Exams. *ACM SIGCSE Bulletin*. 51(1).
- Lewis, C. M., Bruno, P., Raygoza, J., & Wang, J. (2019). Alignment of Goals and Perceptions of Computing Predicts Students' Sense of Belonging in Computing. *ICER*. 11-19.
- Leake, M. & Lewis, C. M. (2017) Recommendations for Designing CS Resource Sharing Sites for All Teachers. *ACM SIGCSE Bulletin*. 48(1), 357-362.
- Lewis, C. M., Anderson, R. E., & Yasuhara, K. (2016). "I don't code all day": Fitting in computer science when the stereotypes don't fit. *ICER*. 23-32.

## Peer-Reviewed, Archived, Conference Publications (continued)

- Lewis, C. M. & Shah, N. (2015). How Equity and Inequity Can Emerge in Pair Programming. *ICER*. 41-50.
- Lewis, C. M. (2014). Exploring variation in students' correct traces of linear recursion. *ICER*. p. 67-74.
- Shah, N., Lewis, C. M., & Caires, R. (2014) Analyzing Equity in Collaborative Learning Situations: A Comparative Case Study in Elementary Computer Science. *International Conferences of the Learning Sciences (ICLS)*. 495-502. **Nominated for best paper.**
- Lewis, C. M., Bhattacharyya, V., Dominguez, N., Esper, S., Fa-Kaji, N., & Schlesinger, A. (2014). Children's perception of what counts as a programming language. *The Journal of Computing Sciences in Colleges*. 29(4), 123-133.
- Parker, M., & Lewis, C. M. (2014). What makes Big-O analysis difficult: Understanding how students understand runtime analysis. *The Journal of Computing Sciences in Colleges*. 29(4), 164-174.
- Lewis, C. M., Khayrallah, H., & Tsai, A. (2013). Mining data from the AP CS A exam: patterns, non-patterns, and replication failure. *ICER*. 115-122.
- Shah, N., Lewis, C. M., Caires, R., Khan, N., Qureshi, A., Ehsanipour, D., & Gupta, N. (2013). Building Equitable Computer Science Classrooms: Elements of a Teaching Approach. *ACM SIGCSE Bulletin*. 44(1). 263-268.
- Lewis, C. M. (2012). The Importance of Students' Attention to Program State: A Case Study of Debugging Behavior. *ICER*. 127-134.
- Lewis, C. M., Titterton, N., & Clancy, M. (2012) Using Collaboration to Overcome Disparities in Java Experience. *ICER*. 79-86.
- Lewis, C. M. & Shah, N. (2012). Building Upon and Enriching Grade Four Mathematics Standards with Programming Curriculum. *ACM SIGCSE Bulletin*. 43(1). 57-62.
- Lam, A. J., Lewis, C. M., Lu, C., Ornstein, I. B., & Wang, D. (2012). Classifying problems to explain patterns of correlation on the 1988 Advanced Placement Computer Science exam. *The Journal of Computing Sciences in Colleges*.
- Lewis, C. M., Yasuhara, K., & Anderson, R. E. (2011). Deciding to Major in Computer Science: A Grounded Theory of Students' Self-Assessment of Ability. *ICER*. 3-10.
- Lewis, C. M., Titterton, N., & Clancy, M. (2011). Developing students' self-assessment skills using lab-centric instruction. *The Journal of Computing Sciences in Colleges*. 26(4). 173-180.
- Lewis, C. M. (2010). How programming environment shapes perception, learning and goals: Logo vs. Scratch, *ACM SIGCSE Bulletin*. 41(1), 346-350.

## Appearances in Documentaries about Women in Computer Science

**Hello World: The Film.** (expected 2019).

Directed by Shawn Wildermuth. [helloworldfilm.com](http://helloworldfilm.com)

**CODE: Debugging the Gender Gap.** (April 2015).

Directed by Robin Hauser Reynolds. [www.codedoc.co](http://www.codedoc.co)

## University Teaching – Harvey Mudd College (HMC) and UC Berkeley (UCB)

**Principles of Computer Science** (HMC CS60) – 11 offerings

**Software Development** (HMC CS121) – 7 offerings

**Computer Security Seminar** (HMC CS181L) – 1 offering

**Computer Science Clinic** (HMC CS183 & CS184) – 5 offerings

**Computer Science Education Research** (HMC CS106) – 4 offerings

**Social Justice and Equity: STEM and Beyond** (HMC ID48) – 6 offerings

**Introduction to Academic Writing** (HMC WRIT1) – 5 offerings

**Structure and Interpretation of Computer Programs** (UCB CS61A) – 1 offering

**Data Structures and Programming Methodology** (UCB CS61B) – 3 offerings

**Introduction to Symbolic Programming** (UCB CS3) – 1 offering

## Online Educational Products

CSTeachignTips.org (1,300 searchable tips from over 150 CS teachers; 7,400 Twitter followers)

Funded by NSF #1339404 and #1821136

Programming in Scratch EdX course [www.edx.org](http://www.edx.org) (Over 60,000 students enrolled)

YouTube tutorials [www.youtube.com/user/ColleenMLewis](http://www.youtube.com/user/ColleenMLewis) (Over 1.3 million views)

## National Service

### **ACM Retention Subcommittee – Member (2017 – present)**

Founded by Alison Derbenwick Miller (Oracle) and Chris Stephenson (Google) this committee seeks to understand retention issues in post-secondary CS education. [tinyurl.com/inroadsCulture](http://tinyurl.com/inroadsCulture)

### **NCWIT Academic Alliance – Summit Planning Committee (2015 – present)**

Worked with NCWIT leadership to plan and execute the summit meeting for Academic Alliance members. Committee co-chair 2017 and 2018.

### **Founder – Works in Progress Workshop – ICER Conference (2014 – 2018)**

Founded a yearly workshop held at the International Computing Education Research Workshop (ICER) to create critical feedback groups to improve the quality of CS education research.

### **Conference Chair – Consortium of Computing Sciences in Colleges – Southwest (2015, 2018)**

Hosted the annual conference with 40 attendees in 2015 and 2018.

### **Region Chair – Consortium of Computing Sciences in Colleges – Southwest (2014 – 2018)**

Elected chair for the Southwest Region.

### **National Board – Consortium of Computing Sciences in Colleges (2011 – 2014)**

Elected representative from the Southwest Region to the National Board.

### **Co-Founder – UC, Berkeley’s CS-KickStart (2011)** [cs-kickstart.berkeley.edu](http://cs-kickstart.berkeley.edu)

Co-founded a one week workshop for incoming female freshman build students’ interest and confidence in pursuing a CS major.

## Invited Talks

- Lewis, C. M. (2019, November 9). Inclusive Teaching for Busy Faculty. ACM Canadian Celebration of Women in Computing (CAN-CWIC). Mississauga, ON, Canada.
- Lewis, C. M. (2019, November 8). Researching CS Education to Drive Equity and Effectiveness. University of Toronto. Toronto, ON, Canada.
- Lewis, C. M. (2019, October 28). Inclusive Teaching Practices for Busy Faculty. Northern Kentucky University, Highland Heights, KY.
- Lewis, C. M. (2019, October 23). Researching CS Education to Drive Equity and Effectiveness. University of California, San Diego. La Jolla, CA.
- Lewis, C. M. (2019, October 14) Recognizing and Responding to Bias and Microaggressions. Colby College. Waterville, ME.
- Lewis, C. M. (2019, October 7). Diversity in Computing: A training on how to support all students. University of Santa Cruz. Santa Cruz, CA.
- Lewis, C. M. (2019, September 16). Inclusive Teaching Practices for Busy Faculty. Department of Engineering Education, University of Buffalo. Buffalo, NY.
- Lewis, C. M. (2019, August 19). Interrupting Bias and Creating Institutional Change. Renaissance Computing Institute at UNC (RENCI). Chapel Hill, NC.
- Lewis, C. M. (2019, May 3). Innovation and Best Practice in the Teaching and Learning of CS. Keynote presented at the Western Canadian Conference on Computing Education (WCCCE). University of Calgary, Calgary, Canada.
- Lewis, C. M. (2019, January 23) Creating an inclusive CS classroom. California Institute of Technology. Pasadena, CA.
- Lewis, C. M. (2018, November 14). Mapping CS knowledge: Implications for teaching and learning. UNC Graduate Women in CS Speaker Series. University North Carolina, Chapel Hill. Chapel Hill, NC.
- Lewis, C. M. (2018, November 14). How Harvey Mudd College Increased the Percentage of Women Studying CS and How to Create a Department Plan for Broadening Participation. University North Carolina, Chapel Hill. Chapel Hill, NC.
- Lewis, C. M. (2018, October 26). Interrupting Bias and Creating Institutional Change. Reframing Tech Speaker Series. University of California Berkeley, Berkeley, CA.
- Lewis, C. M. (2018, September 8). Yes. That's REAL Computer Science. Keynote at the Creative Coding Fest LA, UCLA, Los Angeles, CA.
- Lewis, C. M. (2018, August 10). CS Teaching Tips. NSF-Sponsored New Faculty Workshop. UC San Diego. San Diego, CA.
- Lewis, C. M. (2018, August 10). Time management and work-life balance. NSF-Sponsored New Faculty Workshop. UC San Diego. San Diego, CA.
- Lewis, C. M. (2018, April 13). Equitable Learning Spaces. Friends Seminary School. NYC, NY.
- Lewis, C. M. (2018, March 21). Tips and Strategies for Pursuing Computer Science. Citrus College. Azusa, CA.

## Invited Talks (continued)

- Lewis, C. M. (2018, February 21) Some ABCs of Teaching CS. New Educators Workshop – SIGCSE 2018. Baltimore, MD. <http://www.cs.williams.edu/~andrea/NEW2018/>
- Lewis, C. M. (2017, November 8). Fitting in CS when the stereotypes don't fit. Women in Big Data, Spark & AI meetup hosted by Databricks. San Francisco, CA.
- Lewis, C. M. (2017, September 13). Discussing Diversity: How to respond to bias when you see it. Databricks. San Francisco, CA.
- Lewis, C. M. (2017, August 4). Making CS Welcoming at Harvey Mudd College. Keynote at the Summer App Space. California Institute of Technology. Pasadena, CA.
- Lewis, C. M. (2017, May 3). Promoting Equity and Access in CS. WI CS Educators Summit. Green Lake, WI.
- Lewis, C. M. (2017, March 17). Creating Inclusive Classrooms and Academic Institutions: Lessons from HMC and UC Berkeley. Worcester Polytechnic Institute. Worcester, MA.
- Lewis, C. M. (2017, March 16) Good (and Bad) Reasons to Teach All Students CS. CS Education Course. Worcester Polytechnic Institute. Worcester, MA.
- Lewis, C. M. (2016, November 14). Eleven Tips for Creating Inclusive Classrooms: Lessons from Harvey Mudd, UC Berkeley, psychology research, and CSTeachingTips.org. Cal State University, Long Beach. Long Beach, CA.
- Lewis, C. M. (2016, October 28) Increasing Diversity in CS: Harvey Mudd College and UC Berkeley. CygnetS workshop. British Computing Society (BCS). London, UK.
- Lewis, C. M. (2016, October 18) The stereotypes don't fit. Now what? Rice Univ, Houston, TX.
- Lewis, C. M. (2016, October 17) You don't look like a computer scientist. Kalamzoo College. Kalamzoo, MI.
- Lewis, C. M. (2016, October 17) Creating inclusive college classrooms: Why and how. Jennifer Mills Lecture Series, Kalamzoo College. Kalamzoo, MI.
- Lewis, C. M. (2016, August 25) The K-12 Computer Science Landscape. Computer Science Teachers Association, Inland Empire, Harvey Mudd College, Claremont, CA.
- Lewis, C. M. (2016, August 6) Computer Science Teaching Tips from CSTeachingTips.org. Virtual MESA Academy for Science and Mathematics Educators 2016. USC, Los Angeles, CA.
- Lewis, C. M. (2016, July 27) Working Together to Broadening Participation in Computer Science. SIGGRAPH Women's Lunch, Anaheim, CA.
- Lewis, C. M. (2016, June 7) Expanding access to CS: Why and how. WeTeach\_CS Summit, Austin, TX. <http://www.thetrc.org/cs-summit-2016/>
- Lewis, C. M. (2016, May 11) Bias and institutional barriers in CS: Tips for identification and mitigation. CS Education Day at Northwestern. Northwestern University, Evanston, IL. <https://plt.eecs.northwestern.edu/edu-day/#lewis>
- Lewis, C. M. (2016, April 28) Experience != Smart. Pasadena City College. Pasadena, CA.
- Lewis, C. M. (2016, April 13) Translating Research into Practice. Hosted by CSNYC, New York, NY. <https://youtu.be/TUj8pMAp6X4?t=46m10s>

## Invited Talks (continued)

- Lewis, C. M. (2016, March 2) Some ABCs of Teaching CS. New Educators Workshop – SIGCSE 2016. <http://dave-reed.com/NEW/schedule.html>
- Lewis, C. M. (2015, October 18) Increasing Diversity in CS: Harvey Mudd College and UC Berkeley. Smith College. Northampton, MA.
- Lewis, C. M. (2015, July 17) "You don't look like a computer scientist" Summit Keynote at the Qualcomm EmpowHERment Summit.
- Lewis, C. M. (2015, June 6). Scratch Meetup w/Prof. Colleen Lewis. Hosted by CSNYC, New York, NY. <https://youtu.be/AZW6GdZUJyI>
- Lewis, C. M. (2015, June 3). CS Teaching Tips – Diversity Tip-A-Thon. Hosted by CSNYC, New York, NY. <https://youtu.be/Rk47haG-w8A>
- Lewis, C. M. (2015, February 19) Increasing Diversity in CS: Harvey Mudd College and UC Berkeley. Loyola Marymount University, Los Angeles, CA.
- Lewis, C. M. (2014, March 20). Increasing Diversity in CS: Harvey Mudd College and UC Berkeley. University of North Carolina, Chapel Hill. Chapel Hill, NC.
- Lewis, C. M. (2011, May). Improving student-student, student-instructor, and student-grade interactions using lab-centric instruction. UC Santa Barbara. Santa Barbara, CA.
- Lewis, C. M. (2010, October) Scratch in middle school: Teaching tips and resources. Computer Science Teachers Association, Golden Gate Chapter. Berkeley, CA.
- Lewis, C. M. (2010, October) Interactions between programming environment design and the user's non-programming knowledge. Berkeley Institute of Design, University of California, Berkeley. Berkeley, CA.

## Workshops

- Lewis, C. M. (2019, October 28). Recognizing and Responding to Bias and Microaggressions. Northern Kentucky University, Highland Heights, KY.
- Lewis, C. M., Fernandez, J. & McMullen, K. (2019, September 20). Recognizing and Responding to Bias and Microaggressions. Workshop at the 2019 Richard Tapia Celebration of Diversity in Computing Conference. San Diego, CA, USA.
- Lewis, C. M. (2019, June 25). Challenging gendered stereotypes and bias. Workshop at the 2019 National Coalition of Girls' Schools Conference. Westridge School, Los Angeles, CA.
- Lewis, C. M. (2019, April 23). Recognizing and Responding to Bias. Workshop presented at Purdue University, Lafayette, IN.
- Lewis, C. M. (2019, March 9). What Would You Do if... Addressing Challenges of Inclusive Teaching and Responding to Microaggressions and Bias. Workshop presented at the Association of American Colleges & Universities, Southern California PKAL Regional Network Annual Meeting. Claremont, CA.
- Black, J. T., Bobb, K., Browne, A., Conrad, P. T., Lewis, C. M., Swanier, C. A., & Tejada, S. (2019, March 2). Demystifying Language about Students' Varied Identities. *Special Session presented at the SIGCSE Conference*. Minneapolis, MN.

## Workshops (continued)

- Lewis, C. M. (2019, October 13). Recognizing and Responding to Bias and Microaggressions. Colby College. Waterville, ME.
- Lewis, C. M. (2019, October 7). TA Workshop: Inclusive Teaching. University of Santa Cruz. Santa Cruz, CA.
- Lewis, C. M., DuBow, W., McMullen, K. (2019, March 1). Leading Conversations about Microaggressions, Bias, and Other Nonsense. *Special Session presented at the SIGCSE Conference*. Minneapolis, MN.
- Lewis, C. M., Garcia, D. D., Hu, H., Khan, S., Sridhar, N., Twarek, B., & Uche, C. (2019, March 1). Microteaching: Recursion, Coding Style, Creative Coding, Inheritance and Polymorphism, Loops, and the Internet. *Special Session presented at the SIGCSE Conference*. Minneapolis, MN.
- Parker, M., Black, J. T., Hu, H., & Lewis, C. M. (2019, March 1). Exploring our Privilege: Activities and Discussions. *Special Session presented at the SIGCSE Conference*. Minneapolis, MN.
- Lewis, C. M. (2018, November 14). Advice for Inclusive Teaching. University North Carolina, Chapel Hill. Chapel Hill, NC.
- Lewis, C. M. (2018, November 14). Responding to Microaggressions Workshop. University North Carolina, Chapel Hill. Chapel Hill, NC.
- Lewis, C. M., Ashcraft, C., & McMullen, K. (2018, Sept 20). What Would You Say if...: Responding to Microaggressions, Bias, and Other Nonsense. Workshop presented at the Richard Tapia Celebration of Diversity in Computing. Orlando, FL.
- Lewis, C. M. & Guzdial, M. (2018, August 15-16). Work in Progress Workshop. Workshop at the *International Computing Education Research Workshop*. Espoo, Finland.
- Lewis, C. M. (2018, August 10). Networking and finding mentors. UC San Diego. San Diego, CA.
- Lewis, C. M. (2018, August 10). Undergraduate research. UC San Diego. San Diego, CA.
- Lewis, C. M. (2018, March 10) Inclusive Pedagogy: Finding the Right Approach for You and Your Context. Workshop presented at the AAC&U's 2018 Southern California PKAL Regional Network Annual Meeting. UCLA. Los Angeles, CA. [www.aacu.org/pkal/regional/socal/2018](http://www.aacu.org/pkal/regional/socal/2018)
- Lewis, C. M., Rackoff, E., Cao, E., Khan, S., Lee, C., Garcia, S. (2018, Feb 23). Integrating Social Justice Topics into CS1. Workshop presented at the SIGCSE Conference. Baltimore, MD. [dl.acm.org/citation.cfm?id=3162363](https://dl.acm.org/citation.cfm?id=3162363)
- Lewis, C. M., Ashcraft, C., & McMullen, K. (2018, Feb 22). What Would You Say if...: Responding to Microaggressions, Bias, and Other Nonsense. Special Session presented at the SIGCSE Conference. Baltimore, MD. [dl.acm.org/citation.cfm?id=3159634](https://dl.acm.org/citation.cfm?id=3159634)
- Lewis, C. M. & Fincher, S. (2017, August 20-21). Work in Progress Workshop. Workshop at the *International Computing Education Research Workshop*. Tacoma, WA.
- Lewis, C. M. (2017, July 24). Latest Research and Trends in Promoting Gender Equity in Computer Science Undergraduate Education. Women in Technology and Entrepreneurship in New York (WiTNY) 2017 Summer Faculty Workshop.

## Workshops (continued)

- Lewis, C. M. (2017, May 23). How Instructors Can Improve Inclusiveness in Classrooms and Programs. NCWIT Summit. Tucson, AZ.
- Lewis, C. M. (2017, May 3). Addressing Common Student Misconceptions in Scratch. WI CS Educators Summit. Green Lake, WI.
- Lewis, C. M. (2017, May 3). Tips for Increasing Student Engagement in Computer Science. WI CS Educators Summit. Green Lake, WI.
- Lewis, C. M. (2017, April 7). Supporting and Sustaining Equitable Teaching. Breaking the Boundaries in STEM Education Research. Loyola Marymount University. Los Angeles, CA.
- Lewis, C. M. (2016, September 24) Misconceptions in Scratch. Claremont Graduate University, Claremont, CA.
- Lewis, C. M. & Fincher, S. (2016, September 11-12). Work in Progress Workshop. Workshop at the *International Computing Education Research Workshop*. Melbourne, Australia.
- Lewis, C. M. (2016, June 8) Workshop: Student presentations in Scratch: Making slideshows and animations. WeTeach\_CS Summit, Austin, TX. <http://www.thetrc.org/cs-summit-2016/>
- Lewis, C. M. (2016, June 8) Workshop: Why does Scratch do that?: Common challenges for teachers and students. WeTeach\_CS Summit, Austin, TX.
- Lewis, C. M. (2015, August 13-14). Work in Progress Workshop. Workshop at the *International Computing Education Research Workshop*. Oklahoma, NE.
- Lewis, C. M. (2014, August 13-14). Work in Progress Workshop. Workshop at the *International Computing Education Research Workshop*. Glasgow, Scotland.
- Shah, N., & Lewis, C. M. (2013, March) Workshop: Structuring Programming Labs to Support an Equitable Classroom Environment. Workshop at CCSC-Southwest. San Marcos, CA.
- Clancy, M. J., Titterton, N., Carle, A., Lewis, C. M., & Garcia, D. D. (2010). Get your hands dirty with lab-centric instruction. Workshop at the SIGCSE Conference. Milwaukee, WI.
- Garcia, D. D., Harvey, B., Segars, A., Lewis, C. M., & Paley, J. (2010). The Beauty and Joy of Computing. Workshop presented at the SIGCSE Conference. Milwaukee, WI.

## Panels

- Camp, T., Lewis, C. M., Richardson, D. J., & Zweben, S. (2019, October 4). Understanding Retention Trends for Underrepresented Groups in United States CS Programs. Panel at the 2019 Grace Hopper Celebration. Orlando, FL.
- Danyluk, A., Barr, V., Brodley, C., & Lewis, C. M. (2019, October 3). How Universities are Creating New Pathways to Diversify Tech. Panel at the 2019 Grace Hopper Celebration. Orlando, FL.
- Lewis, C. M., Strom, A., Wellons, J., & Aaronson, L. (2019, June 26). Panel Discussion: STEM. Panel at the 2019 National Coalition of Girls' Schools Conference. Westridge School, Los Angeles, CA.

## Panels (continued)

- Klawe, M., Ellerbe, I., Lewis, C. M., Narayanan, S., & Sax, L. J., (2019, April 30). Priming Diversity in the STEM Talent Pipeline. Diversity Innovation Forum, hosted by the Alliance for SoCal Innovation. Los Angeles, CA.
- Cook, K., Glassberg Sands, E., Judkins, M., Kirschner, A., Lewis, C. M., & Spitz, J. (2019, April 8). How Do Women Regain Momentum in CS and Why It's Critically Important. *Panel presented at the ASU GSV Summit 2019*. San Diego, CA.
- Smith, M., Hosford, G., Lewis, C. M., Simon, E., & Bobb, K. (2019, April 8). Coding and CS Fluency -- Is It "For All" and What's the Best Way to Teach It? *Panel presented at the ASU GSV Summit 2019*. San Diego, CA.
- Guzdial, M., Lewis, C. M., Margulieux, L., Nelson, G. L., & Porter, L. (2019, February 28). Negotiating Varied Research Goals in Computing Education Research. *Panel presented at the SIGCSE Conference*. Minneapolis, MN.
- Camp, T., DuBow, W., Levitt, D., Sax, L. J., Taylor, V., & Lewis, C. M. (2019, February 28). The new NSF requirement for Broadening Participation in Computing (BPC) plans: Community advice and resources. *Panel presented at the SIGCSE Conference*. Minneapolis, MN.
- Kafai, Y., DeLiema, D., Fields, D., Lewis, C. M., & Lewandowski, G. (2019, February 28). Rethinking Debugging as Productive Failure for CS Education. *Panel presented at the SIGCSE Conference*. Minneapolis, MN.
- Fincher, S., Lewis, C. M., Korhonen, A. (2018, August 13). Theory in CS education. International Computing Education Research Workshop. Aalto University. Espoo, Finland.
- Lewis, C. M., Brown, Q., & Kafai, Y. (2018, May 24) Why Teach CS? Why Teach Making? Plenary Keynote Panel presented at the InfoSys Foundation Crossroads Summit. Santa Cruz, CA.
- Lewis, C. M., Paley, J., Sridhar, N., & Rosato, J., (2018, May 23) Preparing Students for Post-Secondary CS. Panel at the InfoSys Foundation Crossroads Summit. Santa Cruz, CA.
- Mitchell, K., Behr, K., Bradshaw, S., Horvath, L., & Lewis, C. M. (2018, Mar 8). One Billion Rising Women's Day Panel and Screening of The Hunting Ground. University of Southern California. Los Angeles, CA.
- Lewis, C. M., Aaronson, L., Allatta, E., Dodds, Z., Forbes, J., McMullen, K., & Sahami, M. (2018, Feb 21). Five Slides About: Abstraction, Arrays, Uncomputability, Networks, Digital Portfolios, and the CS Principles Explore Performance Task. Special Session presented at the SIGCSE Conference. Baltimore, MD. [dl.acm.org/citation.cfm?id=3159645](https://dl.acm.org/citation.cfm?id=3159645)
- Nourbakhsh, I., Lewis, C. M., Blikstein, P., & Ordonez, P. (2017, May 24). Experiential Learning and the Experience of Learning. CrossRoads Summit hosted by Infosys. San Francisco, CA.
- Preston, M., Wang, K., Bortleson, C., Lewis, C. M., Eisner, K. (2017, March 8). Panel at CSforAll Consortium Network Reception hosted by Amazon. Seattle, WA.
- Aviv, A. Gondree, M., Lewis, C. M., & Mirkovic, J. (2016, December 8) Panel: Security Education. Annual Computer Security Applications Conference (ACSAC) 2016. Burbank, CA.
- Lewis, C. M. & Tejada, S. (2016, November 15). Code Documentary Screening and Panel. City National Bank, Los Angeles, CA.

## Panels (continued)

- Gircharu-Kemoli, A., Lewis, C. M., Fofang, S., Segalov, M. (2016, October 21). Disseminating effective teaching practices to broaden participation in STEM. Grace Hopper Celebration. Houston, TX.
- Bryant, K., Feinberg, D., Chang, A. & Lewis, C. M. (2016, August 18). Screening of Code Documentary and Women in Tech Panel. TurnItIn, Oakland, CA.
- Evans, D., Peterson, Z., Lewis, C. M., & Kohno, T. (2016, August 8). Teaching Computer Security: Thoughts from the Field. 25th USENIX Security Symposium, Austin, TX. <https://www.usenix.org/conference/usenixsecurity16/technical-sessions/presentation/evans>
- Taylor, T., Tom, T., Lopez, A., & Lewis, C. M., (2016, April 30) Creating a Middle School Computer Science Course Curriculum Based on CSTA National Standards. Panel at Teaching for Impact: Innovative Practices for Today's Standards. Hosted by UC San Diego.
- Hosford, G., Lewis, C. M., Leyzberg, D., & Schor, J. (2016, March 8) Teaching coding is not about creating programmers. SXSWedu 2016. Austin, TX.
- Garcia, D. D., Lewis, C. M., Reges, S., & Ensmenger, N. (2016, March 4). Why Don't Some CS0 Students Succeed? How Important Are Background, Experience, Culture, Aptitude, Habits and Attitude? Panel at the SIGCSE Conference. Memphis, TN.
- Garcia, D. D., Aaronson, L., Kenner, S., Lewis, C. M., & Rodger, S. (2016, March 3). Technology We Can't Live Without!, revisited. Panel at the SIGCSE Conference. Memphis, TN.
- Lewis, C. M., Kannabiran, G., Spertus, E., & Goldsmith, J. (2016, October) Strategies for Creating Equitable Classrooms: Advice from Feminist Professors. Panel at the Grace Hopper Celebration of Diversity in Computing. Houston, TX.
- Lynch, K., Margolis, J., Lewis, C. M., & Kearns, A. (2015, November 11) Panel discussion of CODE: Debugging the Gender Gap. Panel presented at LA TechWeek, Los Angeles, CA.
- Lewis, C. M., Womack, C., Priforce, K., Monterroso, K., Torres, R., & Mernit, S. (2015, September 11) Repairing the STEM Pipeline. Panel at the TechInclusion conference, San Francisco, CA.
- Dorn, B., Guzdial, M., Lewis, C. M., & Shapiro, B. (2014, August). Expanding the PhD Cohort in CS Education. Panel at the International Computing Education Research Workshop. Glasgow, UK.
- Dahlberg, T. A., Black, J., Joffman, J., Lewis, C. M., & Seals, C. (2013) Leveraging Service Learning to Develop K-12 CS Outreach. Panel presented at the Grace Hopper Celebration of Women in Computing. Minneapolis, MN.
- Lewis, C., M., Clancy, M., Lee, C., B., O'Neill, M., Shah, N., & Wiedermann, B. (2013) Panel: Flavors of active learning in computer science classrooms. Panel at the Consortium for Computing Sciences in Colleges: Southwest Region. San Marcos, CA.
- Garcia, D. D. Ericson, B., Goode, J., & Lewis, C. M. (2012) Rediscovering the passion, beauty, joy, and awe: making computing fun again, part 5. Special Session at the ACM Special Interest Group in Computer Science Education. Raleigh, NC. 577-578.

## Webinars

- Lewis, C. M. (2019, December 17). Understanding CS Pedagogical Content Knowledge. Webinar for the RPP for CS community of practice. Hosted by CSforAll.org.
- Lewis, C. M. (2019, November 25). Insights into Promoting Inclusion in CS Education. Webinar for the Professional Development Service for Teachers. Dublin West Education Centre.
- Lewis, C. M. (2019, November 21). Microaggressions: The Game! Webinar for Logikcull.com.
- Lewis, C. M. (2018, September 10). CSTeachingTips.org and other resources for K-12 CS education. Webinar for the Northeast Ohio STEM Ecosystem.
- Lewis, C. M. (2019, April 26). Teaching Strategy Dos and Don'ts for Increasing Diversity in STEM programs. Webinar for the Inclusion Summit hosted by the National Convergence Technology Center.
- Lewis, C. M. (2017, January 10) CSTeachingTips for Assessing Student Learning. Webinar for the CS For All Teachers Community. <https://csforallteachers.org/event/webinar-csteachingtips-for-assessing-student-learning>
- Lewis, C. M. (2017, January 9) The K-12 Computer Science Landscape. Connecticut CSTA. [https://youtu.be/ie\\_cT\\_YiYz4](https://youtu.be/ie_cT_YiYz4)
- Lewis, C. M. (2016, November 16) Preparing for CS Ed Week (Part Two). Webinar for the CS For All Teachers Community. <https://csforallteachers.org/event/webinar-preparing-for-cs-ed-week-part-two>
- Lewis, C. M. (2016, September 28) CSTeachingTips - Revisiting Classroom Norms. Webinar for the CS For All Teachers Community. <https://csforallteachers.org/event/webinar-csteachingtips-revisiting-classroom-norms>
- Lewis, C. M. (2015, June 25) Starting from Scratch: Community Webinar. Webinar for the CS For All Teachers Community. <https://csforallteachers.org/event/webinar-csteachingtips-revisiting-classroom-norms>
- Lewis, C. M. (2015, April 6). Pair programming – Success or Epic Disaster. Webinar hosted by the NSF-sponsored site cs10kcommunity.org <http://air.adobeconnect.com/p3vd0mgw719/>
- Lewis, C. M. (2015, January 16). Episode #9 Colleen Lewis. Webinar hosted by CS Education Zoo. <https://youtu.be/yBe0fqE0XCM>