

**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

Inaugural McGregor-Girand Endowed Chair – 2018  
Denice Denton Emerging Leader Award from the Anita Borg Institute – 2016  
Mentoring Award from the National Center for Women in Information Technology – 2015  
Best Paper Nominee at the International Conf. of the Learning Sciences, awarded to 6 of 117 – 2014  
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; #1339404) – 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. (accepted). 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

- 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. *International Computing Education Research Workshop*. 23-32.
- Lewis, C. M. & Shah, N. (2015). How Equity and Inequity Can Emerge in Pair Programming. *International Computing Education Research Workshop*. 41-50.
- Lewis, C. M. (2014). Exploring variation in students' correct traces of linear recursion. *International Computing Education Research Workshop*. 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.**

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

- 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. *International Computing Education Research Workshop*. 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. *International Computing Education Research Workshop*. 127-134.
- Lewis, C. M., Titterton, N., & Clancy, M. (2012) Using Collaboration to Overcome Disparities in Java Experience. *International Computing Education Research Workshop*. 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. *International Computing Education Research Workshop*. 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.

## Online Educational Products

- CSTeachignTips.org (1,200 searchable tips from over 150 CS teachers; 6,000 Twitter followers)  
Funded by NSF #1339404
- 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 million views)

## 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)

## Invited Talks

- 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. UC Berkeley, Berkeley, CA.
- 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. (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.
- 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. (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)

## Invited Talks (continued)

- 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, 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, 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. (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>
- 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 25) Starting from Scratch: Community Webinar. Webinar for the CS For All Teachers Community. <https://csforallteachers.org/event/webinar-csteachingtips-revisiting-classroom-norms>

## Invited Talks (continued)

- 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, April 6). Pair programming – Success or Epic Disaster. Webinar hosted by the NSF-sponsored site [cs10kcommunity.org](http://air.adobeconnect.com/p3vd0mgw719/) <http://air.adobeconnect.com/p3vd0mgw719/>
- 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. (2015, January 16). Episode #9 Colleen Lewis. Webinar hosted by CS Education Zoo. <https://youtu.be/yBe0fqE0XCM>
- 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, USA.
- Lewis, C. M. (2010, October) Scratch in middle school: Teaching tips and resources. Computer Science Teachers Association, Golden Gate Chapter. Berkeley, CA, USA.
- 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, USA.

## Workshops

- 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, USA.
- Lewis, C. M., Ashcraft, C., McMullen, K. (2019, March 1). Leading Conversations about Microaggressions, Bias, and Other Nonsense. *Special Session presented at the SIGCSE Conference*. Minneapolis, MN, USA.
- 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, USA.
- 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, USA.
- 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.

## Workshops (continued)

- 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 with students. 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](http://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](http://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.
- 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.

## Workshops (continued)

- 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

- 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, USA.
- 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, USA.
- 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, USA.
- Fincher, S., Lewis, C. M., Korhonen, A. (2018, August 13). Theory in CS education. *International Computing Education Research Workshop*. Aalto University. Espoo, Finland.
- 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.
- 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.



## Panels (continued)

- 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, USA.
- 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.

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

**Principles of Computer Science** (HMC CS60) – 11 offerings  
**Software Development** (HMC CS121) – 3 offerings  
**Computer Security Seminar** (HMC CS181L) – 1 offering  
**Computer Science Clinic** (HMC CS183 & CS184) – 4 offerings  
**Computer Science Education Research** (HMC CS106) – 4 offerings  
**Social Justice and Equity: STEM and Beyond** (HMC ID48) – 4 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

## Middle-School Teaching

**Making Music, Movies and Games with Computers** (Academic Talent Development Program, UC Berkeley) – 10 offerings  
**Scratch Programming** (Berkeley Foundations for Opportunities in IT, UC Berkeley) – 1 offering  
**Pre-Engineering Program** (Professional Development Program, UC Berkeley) – 1 offering

## 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 (2018)**

Hosted the annual conference with 40 attendees.

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

Hosted the annual conference with 40 attendees.

### **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, launched in August 2011, to create a community and build students’ interest and confidence to pursue a CS major.

## Advisory Boards

### **IntroCS POGIL: Process Oriented Guided Inquiry Learning in Introductory CS (2017-2020)**

Advised this NSF project (#1626765) on supporting teachers in adopting new teaching practices.

### **Building, Recruiting, and Inclusion for Diversity (BRAID)– UCLA & AnitaB.org (2016 – 2019)**

Advised this NSF project related to replicating the success of Harvey Mudd College in recruiting and retaining female-identified students in the CS major.

### **Engage CS Edu - NCWIT (2015 – 2018)**

Advised project on engaging educators within an online curriculum-sharing platform.

### **STEAM:Coders (2014 – present)**

Advised the non-profit focused on providing CS instruction to disadvantaged middle-school students in the LA area.

### **Transformative Robotics Experience for Elementary Students (TREES) (2014 – 2017)**

Advised this NSF project (#1523010) on developing and evaluating robotics curriculum for elementary school students.

### **Berkeley Foundations for Opportunities in IT (2009 – 2012)**

Advised regarding the strategic direction of the program to increase the participation of underrepresented minorities in CS.

## Membership in Professional Organizations

Association of Computing Machinery (ACM)

Special Interest Group on Computer Science Education (SIGCSE)

American Educational Research Association (AERA)

International Society of the Learning Sciences (ISLS)

National Center for Women and Information Technology (NCWIT)