

Christopher Lynnly Hovey

Department of Information Science
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Research Areas

diversity, equity, and inclusion in U.S. undergraduate and graduate computer science education; faculty adoption of research-based, student-centered, active learning teaching practices; sociology of higher education; quantitative, qualitative, and mixed research methodology

Education

- 2017 Ph.D. Northeastern University (Sociology); Boston, MA
Dissertation Title: “Faculty Adoption of Teaching Innovations that Promote Diversity and Student Retention in Undergraduate Computing”
- 2009 M.A. Northeastern University (Sociology); Boston, MA
- 2005 B.A. University of Colorado Boulder (Sociology); Boulder, CO

Academic Appointments

- 2020-present *Instructor*; Department of Information Science, University of Colorado Boulder
- 2018-present *Research Associate*; Department of Information Science, University of Colorado Boulder
Research Scientist; National Center for Women & Information Technology
- 2016-2018 *Professional Research Assistant*; Department of Information Science, University of Colorado Boulder
- 2013-2016 *Social Science/Humanities Research Associate (IV)*; School of Information, University of Texas, Austin
- 2012-2013 *Research Consultant*; contracted by the School of Information, University of Texas, Austin
- 2010-2012 *Graduate Instructor*; Department of Sociology and Anthropology, Northeastern University
- 2007-2010 *Research Consultant*; contracted by the School of Information, University of Texas, Austin
- 2005-2007 *Professional Research Assistant, Research Coordinator*; Assessment and Research Center (ARC) in the Alliance for Technology, Learning, and Society (ATLAS) Institute, University of Colorado Boulder
- 2003-2005 *Undergraduate Research Assistant*; jointly appointed by the Alliance for Technology, Learning, and Society (ATLAS) Institute, the Institute of Cognitive Science (ICS), and the Center for Integrated Plasma Studies (CIPS), University of Colorado Boulder

Publications and Archived, Peer-Reviewed Conference Papers

- 2020 **Hovey, Christopher Lynnly** and Lecia Barker. 2020. “Faculty Adoption of CS Education Innovations: Exploring Continued Use.” Pp. 570–576 in *Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE ’20)*. Portland, Oregon, USA, March 11th-14, 2020: Association for Computing Machinery (ACM). *Conference Canceled*. doi:10.1145/3328778.3366874
- 2020 **Hovey, Christopher Lynnly**, Kathleen J. Lehman, and Tiffani Riggers-Piehl. 2020. “Linking Faculty Attitudes to Pedagogical Choices: Student-Centered Teaching in Introductory Computing Classes.” Pp. 584–590 in *Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE ’20)*. Portland, Oregon, USA, March 11th-14, 2020: Association for Computing Machinery (ACM). *Conference Canceled*. doi:10.1145/3328778.3366883
- 2019 **Hovey, Christopher Lynnly**, Lecia Barker, and Margaret Luebs. 2019. “Frequency of Instructor- and Student-Centered Teaching Practices in Introductory CS Courses.” Pp. 599–605 in *Proceedings of the 50th ACM Technical Symposium on Computer Science Education (SIGCSE ’19)*. Minneapolis, Minnesota, USA, February 27-March 2, 2019: Association for Computing Machinery (ACM). doi:10.1145/3287324.3287363
- 2019 **Hovey, Christopher Lynnly**, Lecia Barker, and Vaughan Nagy. 2019. “Survey Results on Why CS Faculty Adopt New Teaching Practices.” Pp. 483–489 in *Proceedings of the 50th ACM Technical Symposium on Computer Science Education (SIGCSE ’19)*. Minneapolis, Minnesota, USA, February 27-March 2, 2019: Association for Computing Machinery (ACM). doi:10.1145/3287324.3287420
- 2018 Taylor, Cynthia, Jaime Spacco, David P. Bunde, Zack Butler, Heather Bort, **Christopher Lynnly Hovey**, Francesco Maiorana, and Thomas Zeume. 2018. “Propagating the Adoption of CS Educational Innovations.” Pp. 217–235 in *Proceedings of the 23rd Annual ACM Conference on Innovation and Technology in Computer Science Education, (ITiCSE Companion ’18)*. Larnaca, Cyprus, July 2-4, 2018: Association for Computing Machinery (ACM). doi:10.1145/3293881.3295785
- 2018 Wu, Zhen, **Christopher Lynnly Hovey**, and Leisa Thompson. 2018. “Expanding the Pool of Undergraduate Computing Students: Increasing Enrollments by Strategically Recruiting Women.” Paper ID #22737 in *2018 ASEE Annual Conference & Exposition (ASEE ’18)*. Salt Lake City, Utah, USA, June 24-27, 2018: American Society for Engineering Education (ASEE). <https://peer.asee.org/30474>
- 2017 Tuna, Tayfun, Jaspal Subhlok, Lecia Barker, Shishir Shah, Olin Johnson, and **Christopher Hovey**. 2017. “Indexed Captioned Searchable Videos: A Learning Companion for STEM Coursework.” *Journal of Science Education and Technology* 26(1):82–99. doi:10.1007/s10956-016-9653-1
- 2015 Barker, Lecia, **Christopher Lynnly Hovey**, and Jane Gruning. 2015. “What Influences CS Faculty to Adopt Teaching Practices?” Pp. 604–609 in *Proceedings of the 46th ACM Technical Symposium on Computer Science Education (SIGCSE ’15)*. Kansas City, Missouri, USA, March 4-7, 2015: Association for Computing Machinery (ACM). doi:10.1145/2676723.2677282

- 2014 Barker, Lecia, **Christopher Lynnly Hovey**, Jaspal Subhlok, and Tayfun Tuna. 2014. “Student Perceptions of Indexed, Searchable Videos of Faculty Lectures.” Pp. 1234–42 in *Proceedings of the 44th Annual Frontiers in Education Conference (FIE '14)*. Madrid, Spain, October 22-25, 2014: Institute of Electrical and Electronics Engineers (IEEE). doi:10.1109/FIE.2014.7044189
- 2014 Barker, Lecia, **Christopher Lynnly Hovey**, and Leisa D. Thompson. 2014. “Results of a Large-Scale, Multi-Institutional Study of Undergraduate Retention in Computing.” Pp. 1693–1700 in *Proceedings of the 44th Annual Frontiers in Education Conference (FIE '14)*. Madrid, Spain, October 22-25, 2014: Institute of Electrical and Electronics Engineers (IEEE). doi:10.1109/FIE.2014.7044267

Conference Posters, Presentations, and Special Sessions

- accepted* Erika Lynn Dawson Head, Emma Anderson, Sepi Hejazi Moghadam, Elise Dorough, Leslie Sessoms, and **Christopher L. Hovey**. 2021. “Improving Diversity, Equity, and Inclusion in Doctoral Computing Education.” Panel accepted for the *52nd ACM Technical Symposium on Computer Science Education, SIGCSE TS '21*. Toronto, Ontario, Canada March 17th-March 20th, 2021: Association for Computing Machinery (ACM).
- accepted* Michael Kölling, Colleen M. Lewis, Leo Porter, and **Christopher L. Hovey**. 2021. “Panel: Lessons Learned in Propagation.” Panel accepted for the *52nd ACM Technical Symposium on Computer Science Education, SIGCSE TS '21*. Toronto, Ontario, Canada March 17th-March 20th, 2021: Association for Computing Machinery (ACM).
- 2020 Huber Ward, Jamie L., **Christopher Lynnly Hovey**, and Sherri Sanders. 2020. “Strategic Planning for Diversifying Your Student Body in Postsecondary Computing Programs.” Presented at *ACM Richard Tapia Celebration of Diversity in Computing Conference (Tapia '20)*. Virtual conference, September 16-18, 2020: Association for Computing Machinery (ACM), Center for Minorities and People with Disabilities in IT (CMD-IT).
- 2020 **Hovey, Christopher Lynnly**, Kathleen J. Lehman, and Tiffani Riggers-Piehl. 2020. “Linking Faculty Attitudes to Pedagogical Choices: Student-Centered Teaching in Introductory Computing Classes.” Presented at *Building, Recruiting, and Inclusion for Diversity (BRAID) 2020 Annual Summit*. Virtual conference, July 15-17, 2020: BRAID Initiative (Momentum), AnitaB.org.
- 2020 Lehman, Kathleen, Tiffany A. Riggers-Piehl, and **Christopher Lynnly Hovey**. 2020. “Exploring Teaching Practices in Introductory Computer Science Courses: Student-Centered Pedagogy in the Context of Departmental Efforts.” Poster Session at *AERA Annual Meeting*. San Francisco, California, USA, April 17-21, 2020: American Educational Research Association (AERA). *Conference Canceled*.
- 2019 Bort, Heather, David P. Bunde, Zack Butler, **Christopher Lynnly Hovey**, and Cynthia Taylor. 2019. “Special Session: Propagation and Adoption of Educational Innovations.” Presented at the *50th ACM Technical Symposium on Computer Science Education, SIGCSE '19*. Minneapolis, Minnesota, USA, February 27th-March 2nd, 2019: Association for Computing Machinery (ACM). doi:10.1145/3287324.3287526

- 2016 Barker, Lecia, **Christopher Lynnly Hovey**, and Jane Gruning. 2016. “What Influences Computer Science Faculty to Adopt Teaching Practices? Results from the Qualitative Phase.” Paper A29 presented at *Envisioning the Future of Undergraduate STEM Education: Research and Practice (EnFUSE '16)*. Washington, D.C., USA, April 27-29, 2016: The American Association for the Advancement of Science (AAAS).

Products for Transforming Research into Practices (Public Sociology)

- accepted* David P. Bunde, Zack Butler, **Christopher L. Hovey**, and Cynthia Taylor. 2020. “Conversation with a Prominent Propagator: Colleen Lewis.” Accepted for publication in *ACM Inroads*, issue TBD.
- 2020 David P. Bunde, Zack Butler, **Christopher L. Hovey**, and Cynthia Taylor. 2020. “Conversation with a Prominent Propagator: Michael Kölling.” *ACM Inroads*, 11(4):6-8. <https://doi.org/10.1145/3428677>
- 2020 David P. Bunde, Zack Butler, **Christopher L. Hovey**, and Cynthia Taylor. 2020. “Conversation with a Prominent Propagator: Sushil Prasad.” *ACM Inroads*, 11(3):22-24. [doi:10.1145/3410472](https://doi.org/10.1145/3410472).
- 2020 Bort, Heather, David P. Bunde, Zack Butler, **Christopher L. Hovey**, Jaime Spacco, and Cynthia Taylor. 2020. “Conversation with a Prominent Propagator: Leo Porter.” *ACM Inroads*. 11(1): 12-15. [doi:10.1145/3381023](https://doi.org/10.1145/3381023)
- 2019 **Hovey, Christopher Lynnly**. 2019. “Graduate Student Climate Survey.” National Center for Women & Information Technology (NCWIT) Extension Services for Graduate Programs (ES-Grad).
- 2019 **Hovey, Christopher Lynnly**, Lecia Barker, and Margaret Luebs. 2019. “Advance Women in Research Careers: NCWIT Extension Services for Graduate Programs.” National Center for Women & Information Technology (NCWIT). Boulder, CO, USA. [download](#)
- 2019 **Hovey, Christopher Lynnly** and Lecia Barker. 2019. “Student Experience of the Major (SEM): Belonging and Identity Survey.” National Center for Women & Information Technology (NCWIT) Extension Services for Undergraduate Programs (ES-UP).
- 2015 Barker, Lecia Jane, **Christopher Lynnly Hovey**, and Leisa D. Thompson. 2015. “Survey-in-a-Box: Student Experience of the Major (2015 Update).” National Center for Women & Information Technology (NCWIT). Boulder, CO, USA. [online version](#)
- 2015 Barker, Lecia J. and **Christopher Lynnly Hovey**. 2015. “Retaining Women through Inclusive Pedagogy: Framing a Supportive Classroom Climate (Case Study 4).” Promising Practices. National Center for Women & Information Technology (NCWIT). Boulder, CO, USA. [download](#) or [online version](#)
- 2007 Schlender, Shelley. WAMC Northeast Public Radio. Broadcast on December 20, 2007. “Sounds of Progress, Part I: The Great Research Challenge—Engaging Girls in Computing” *interviewee*. [broadcast description](#) and [archived streaming audio](#)

Awards and Authored Grants and Gifts

- 2019 “ES-Grad Pilot Program, Phase 2.” Google™ financial support of NCWIT Extension Services for Graduate Programs. Principle Investigators: Christopher Hovey and Dr. Lecia Barker; \$32,300. *Proposal author*.

2006-2007 “Digital Currents Summer Camp.” University of Colorado Continuing Education and Professional Studies Outreach Award. Principle Investigators: Dr. Diane Sieber and Dr. Lecia Barker; \$5,000. *Proposal author.*

Technical Reports

2008 Barker, Lecia J. and **Christopher Hovey**. 2008. *Scholars of the Future Evaluation Report*. Blacksburg, VA: Virginia Polytechnic Institute and State University.

2008 Barker, Lecia, **Christopher Hovey**, and Sarah Morangelo. 2008. *Distributed Mentor Project (DMP) Program Evaluation*. Computing Research Association Committee on the Status of Women in Computing Research (CRAW).

2008 Barker, Lecia, and **Christopher Hovey**. 2008. *Collaborative Research Experiences for Undergraduates (CREU) Program Evaluation*. Computing Research Association Committee on the Status of Women in Computing Research (CRAW).

2006 Barker, Lecia, and **Christopher Hovey**. 2006. *Girls Exploring Science Engineering, and Technology Event: March 10, 2006*. The Society of Women Engineers (SWE) Rocky Mountain Section, Lockheed Martin, Junior Achievement of Rocky Mountain, Inc., and Agilent Technologies.

Research Experience: Projects and Grants

2018-present National Center for Women & Information Technology (NCWIT) Extension Services Graduate Program (ES-GP) Pilot, funded by gifts from Google™.

2016-present National Center for Women & Information Technology (NCWIT) Extension Services Undergraduate Programs (ES-UP): “Collaborative Research: Expanding the Pool of Local Cooperatives for Recruiting and Retaining Women in Disciplines with Least Women” (NSF GSE/EXT #1203198)

2012-2018 “Research on Faculty Change: Adoption of Practices that Support Gender Diversity in Undergraduate Computing” (NSF DUE #1123332).

2013-2016 “Student Experience of the Major (SEM).” NCWIT Survey-in-a-Box.
“Indexed, Captioned, and Searchable (ICS) Lecture Video Player” (NSF DUE #0817558).

2011-2012 Co-author of sociologically relevant examples and problem-solutions sets for Levin, Jack A., James Alan Fox, and David R. Forde. 2014. *Elementary Statistics in Social Research*. 12th edition. Boston: Pearson.

2007-2009 “Pathways to Broadening Participation in TeraGrid.” Sub-award from NSF (CNS).

2006-2007 “Collaborative Research Experiences for Undergraduates (CREU)” and the “Distributed Mentor Program (DMP)” Program Evaluation. Computer Research Association Committee on the Status of Women in Computing Research (CRAW).

2004-2009 “Scholars of the Future: An Implementation Model for Increasing Diversity in Information Technology.” NSF (CNS).

2005-2007 “Undergraduate Student Experience Assessment.” University of California Irvine Bren School of Information and Computer Sciences

2005-2007 “Teachers and Technology Study” University of Washington

2005-2007 Girls Exploring Science, Engineering, and Technology (GESET) Event and Program Evaluation

Supervision of Undergraduate Research Experiences (REUs)

- 2011 Justine Bell Lambright. "Structural Adjustment and Gross Domestic Product: Analyzing the Relationship using Quantitative Modeling with Time/Entity Effects." Independent study advisor. Department of Sociology and Anthropology, Northeastern University
- 2011 Alexis Tavares. "Race to the Charts: Racial and Gender Inequality in Popular Culture." Co-supervisor with Prof. Jack Levin. Department of Sociology and Anthropology, Northeastern University
- 2006 Ashleigh Potter. "Mixed Method Research on Women and Technical Fields." Tiered mentoring role with Dr. Lecia Barker. Alliance for Technology, Learning, and Society (ATLAS), University of Colorado Boulder

Teaching Experience

Instructor; Department of Information Science, University of Colorado Boulder

Statistics for Information Science (INFO 1301); Fall 2020; Spring 2021

Graduate Instructor of Record; Department of Sociology and Anthropology, Northeastern University

Statistical Methods of Analysis (SOCL 2320); Spring, Summer, and Fall 2011; Spring 2012

Sociology of Violence (SOCL 1241); Spring 2012

Introduction to Sociology (SOCL 1101); Fall 2010

Graduate Teaching Assistant; Department of Sociology and Anthropology, Northeastern University

Dialogue of Civilizations: Turkey (SOCL 3471); Summer 2011

Statistical Methods of Analysis (SOCL 2320); Spring 2010

Social Theory (SOC U300); Fall 2009

Peoples and Cultures (Introduction to Anthropology) (SOA U101); Spring 2009

Introduction to Sociology (SOC U101); Fall 2008

Computers and Society (SOC U528); Spring 2008

Undergrad Teaching Assistant; Department of Astrophysics, University of Colorado Boulder

Introductory Astronomy I (ASTR1010); Spring 2013

Guest Lectures and Invited Talks

2018 "Implications of Cognitive Learning Theory on Designing Presentations." Colorado School of Mines (LICM 501 Professional Oral Communication)

2015 "Illicit Transnational Networks: The Dark Side of Globalization (or the Lucrative Side of Shadow Markets)." Suffolk University (SIB 101 Globalization)

2010 "De-Mything Terrorism." Northeastern University (SOCL 1241 Sociology of Violence)

- 2009 “Foucault and the Classroom: Observation, Power, and Control.” Northeastern University (SOC U300 Social Theory)
- 2009 “Dialogues of Civilizations” panelist. Northeastern University (Department of International Affairs information session and guest panel)

Service Committees and Positions

- 2020-present Committee on Quantitative/Computational Curriculum; Department of Information Science, University of Colorado Boulder
- 2020-present Graduate Committee Special Projects: Graduate Student Climate Survey; Department of Information Science, University of Colorado Boulder
- 2005-present [National Center for Women and Information Technology \(NCWIT\)](#)
Annual Summit Volunteer; 2005-2007, 2016-present
SIGCSE Conference Volunteer; 2016, 2018, 2019
- 2016-2018 [EngageCSEdu™](#) Engagement Excellence Practices
Social Science Content Reviewer; 2016-2018
Engagement Excellence Awards Committee; 2016, 2017
- 2010-2011 Committee to Improve Undergraduate Research Methods Education; Department of Sociology and Anthropology, Northeastern University
- 2008-2010 Committee on Graduate Students (COGS); Department of Sociology and Anthropology, Northeastern University
Student Associate Representative; 2009-2010
Student Assistant Representative; 2008-2009
- 2007-2009 Boston Area Sociology Graduate Student Conference
Planning Committee Chair; 2009
Planning Committee Member; 2008
- 2004-2007 [Girls Exploring Science, Engineering, and Technology \(GESET\)](#) event, sponsored by the Society of Women Engineers (SWE)
Planning Committee Member; 2006, 2007
- 2004-2007 Denver Public High School Computer Magnet Program
Program Assistant Evaluator; 2005-2007

Peer Reviewer

- ACM Special Interest Group in Computer Science Education (SIGCSE); 2019, 2020
- EngageCSEdu™ Social Scientist Content Reviewer; 2016-2018
- Sage Open (Journal); 2016, 2018
- IEEE Frontiers in Education: 2015 (*FIE '15*)