CERTIFICATION

I have read the following and certify that it is a current and accurate statement of my professional record as of 12 June 2017.

(signature: Tamara L. Clegg)

Curriculum Vitae of
TAMARA CLEGG

University of Maryland, College Park
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4130 Campus Dr.
College Park, MD 20742
tclegg@umd.edu   www.tamaraclegg.com

Curriculum Vitae Updated: June 2017

PERSONAL INFORMATION
UID: tclegg

NAME: Tamara Clegg

CONTACT INFORMATION:
                         5903 Chestnut Hill Rd.
                         College Park, MD 20740

CURRENT RANK: Assistant Professor
APPOINTMENT: 2012

DEPARTMENTS: College of Information Studies (Tenure home-75%)
                         Department of Teaching and Learning, Policy and Leadership, College of Education
                         (Research Appointment-25%)

 EDUCATIONAL BACKGROUND
              Ph.d. August 2010
              School of Interactive Computing
              College of Computing, Georgia Institute of Technology
              Dissertation: Kitchen Science Investigators: Building Identity as Scientific
              Reasoners and Thinkers
              Advisor: Dr. Janet Kolodner

              B.S. Computer Science 2002
              North Carolina State University
              Summa cum laude

EMPLOYMENT BACKGROUND
8/16 – Present   Assistant Professor with appointments in:
                 College of Information Studies (tenure home – 75%)

Department of Teaching and Learning, Policy and Leadership, College of Education (25%)

8/12 – 8/16   Assistant Professor with appointments in:
Department of Teaching and Learning, Policy and Leadership, College of Education (tenure home - 75%)
College of Information Studies (25%)

9/10 – 8/12   Computing Innovations Fellow
College of Information Studies
University of Maryland, College Park, MD
Postdoctoral Advisor: Dr. Allison Druin
Project: The Design of Life-Relevant Learning Technology and Activities

8/07 – 5/10   Graduate Teaching Assistant
School of Interactive Computing
College of Computing
Georgia Institute of Technology, Atlanta, GA

8/09 – 12/09   Graduate Research Assistant
School of Public Policy
Georgia Institute of Technology, Atlanta, GA

1/04 – 8/10   Graduate Research Assistant
School of Interactive Computing
College of Computing
Georgia Institute of Technology, Atlanta, GA

6/04 – 7/04   Software Developer
AT&T Research Laboratory
Florham Park, NJ

6/98 – 8/03   Software Developer and Tester
International Business Machines
Durham, NC

Research, Scholarly, Creative and/or Professional Activities
In all references, my name is in bold.
I have actively worked on every publication in which my name appears.
# Indicates students that I actively mentored in the publication.
For articles in refereed journals, I have included the most recent impact factor (when data is available).
For full papers published in conference proceedings, I have included the acceptance rate of the conference (when data is available).

<u>Chapters in Books</u>
1.   #Uchidiuno, J., **Clegg, T.,** Ahn, J., Yip, J., Bonsignore, E., Pauw, D., Beck, A., & Mills, K. (In Press). Learning About Learning Through Participatory Design with Families. In B. DiSalvo, C. DiSalvo, E. Bonsignore, & J. Yip (Eds.), *Participatory Design for Learning: Perspectives from Practice and Research*. New York: Routledge.
2.   Ahn, J., & **Clegg, T.** (In Press). HCI and Education: Designing for Technology-

Enhanced Learning Experiences. In K. Norman (Ed.), *Wiley Handbook of Human-Computer Interaction*. West Sussex: John Wiley & Sons, Ltd.

Articles in Refereed Journals

3. Ahn, J., **Clegg, T.,** Yip, J., Bonsignore, E., Pauw, D., Gubbels, M., Lewittes, B., & Rhodes, E. (2016). Seeing the Unseen Learner: Designing and Using Social Media to Recognize Children's Science Dispositions in Action. *Learning Media and Technology*, 41(2), 252 - 282. (Impact Factor – 1.702)

4. **Clegg, T.**, & Kolodner, J. (2014). Scientizing and Cooking: Helping Middle-School Learners Develop Scientific Dispositions. *Science Education*, 98(1), 36-63. [Impact Factor – 2.382]

5. Foss, E., Guha, M.L,, Papadatos, P., **Clegg, T.**, Yip, J., and Walsh, G. (2013). Cooperative Inquiry Extended: Creating Technology with Middle School Students with Learning Differences. *Journal of Special Education Technology, 28*(3), 33-46. [Acceptance rate – 11 - 20%]

6. **Clegg, T.,** & Kolodner, J. (2007). Bricoleurs and Planners Engaging in Scientific Reasoning: A Tale of Two Groups in One Learning Community. *Research and Practice in Technology Enhanced Learning,* 2(3), 239-265.

Articles in Refereed Conference Proceedings (with Archival Publications)
[Total: 18 conference papers published, 14 published since 2012. Conference acceptance rates have been noted where this information could be found. These are refereed papers where all papers must be accepted or rejected without the opportunity for substantial revisions. The exception is the ACM CHI conference. Authors of ACM CHI refereed papers are given the opportunity to rebut any reviews, and revisions are expected if accepted. There are a minimum of 5 reviewers for any accepted CHI paper. CHI conference papers are considered to be journal-quality papers.]

7. **Clegg, T.,** Norooz, L., Kang, S., Byrne, V., Katzen, M., Valez, R., Plane, A., Oguamanam, V., Outing, T., Yip, J., Bonsignore, E., & Froehlich, J. (2017). Live Physiological Sensing & Visualization Ecosystems: An Activity Theory Analysis. In *Proceedings of the 2017 SIGCHI Conference on Human Factors in Computing Systems (CHI '17)* (pp. 2029 - 2041). New York, NY: ACM. [h5 index - 83, Acceptance rate – 25%]

8. Kang, S., Norooz, L., Oguamanam, V., Plane, A., Green, A., **Clegg, T.,** & Froehlich, J. (2016). SharedPhys: Live Physiological Sensing, Whole-body Interaction, and Large-screen Visualizations to Support Shared Inquiry Experiences. In *Proceedings of the 15ᵗʰ International Conference on Interaction, Design, and Children (IDC '16)* (pp. 275 - 287). New York, NY: ACM. [Acceptance rate – 47%]

9. **Clegg, T.,** Preece, J., Warrick, E., Pauw, D., & Boston, C. (2016). Environmental Learning through the Lens of Affinity Spaces: Transforming Community Members into a Community Force. In *C.K. Looi, U. Cress, J. L. Polman, & P. Reimann (Eds.), Transforming Learning, Empowering Learners: Proceedings of the 12ᵗʰ International Conference of the Learning Sciences (ICLS '16)* Volume 2 (pp. 851 - 854). Singapore: International Society of the Learning Sciences. [Acceptance rate - 34%]

10. #Norooz, L., **Clegg, T.,** Kang, S., Plane, A., Oguamanam, V., & Froehlich, J. (2016). "That's Your Heart!": Live Physiological Sensing & Visualization Tools for Personally Relevant & Collaborative STEM Learning. In *C.K. Looi, U. Cress, J. L. Polman, & P. Reimann (Eds.), Transforming Learning, Empowering Learners: Proceedings of the 12ᵗʰ International Conference of the Learning Sciences (ICLS '16)* Volume 2 (pp. 779 - 782). Singapore: International Society of the Learning Sciences.

[Acceptance rate - 34%]

11. Yip, J., **Clegg, T.,** Ahn, J., Uchidiuno, J., Bonsignore, E., Beck, A., Pauw, D., & Mills, K. (2016). The Evolution of Roles and Social Bonds During Child-parent Co-design. In *Proceedings of the 2016 SIGCHI Conference on Human Factors in Computing Systems (CHI '16)* (pp. 3607 - 3619). New York, NY: ACM. [h5 index – 84, Acceptance rate – 23.8%]

12. #Pauw, D., **Clegg, T.,** Ahn, J., Bonsignore, E., Yip, J., & Uchidiuno, J. (2015). Navigating Connected Inquiry Learning with ScienceKit. In *O. Lindwall, P. Hakkinen, T. Koschmann, P. Tchounikine & S. Ludvigsen (Eds.), Exploring the Material Conditions of Learning: Proceedings of the 11th Computer Supported Collaborative Learning Conference (CSCL '15)* Volume 1 (pp. 113-120). Gothenburg, Sweden: International Society of the Learning Sciences. [h5 index – 15, Acceptance rate – 36%]

13. Yip, J., Ahn, J., **Clegg, T.,** Bonsignore, E., Pauw, D., & Gubbels, M. (2014). "It Helped Me Do My Science." A Case of Designing Social Media Technologies for Children in Science Learning. In *Proceedings of the 13th International Conference on Interaction, Design, and Children (IDC '14)* (pp. 155 – 164). New York, NY: ACM. [h5 index – 19, Acceptance rate – 31%]

14. **Clegg, T.,** Bonsignore, E., Ahn, J., Yip, J., Pauw, D., Gubbels, M., Lewittes, B., & Rhodes, E. (2014). Capturing Personal and Social Science: Technology for Integrating the Building Blocks of Disposition. In J. *Polman, E. Kyza, D. O'Neill, I. Tabak, W. Penuel, S. Jurow, K. O'Connor, T. Lee, & L. D'Amico, (Eds.) Learning and Becoming in Practice: Proceedings of the 11th International Conference of the Learning Sciences (ICLS '14)* (pp. 455 - 462). Boulder, CO: International Society of the Learning Sciences. [h5 index – 16, Acceptance rate – 30%]

15. #Yip, J., **Clegg, T.,** Ahn, J., Bonsignore, E., Gubbels, M., Rhodes, E., & Lewittes, B. (2014). The Role of Identity Development Within Tensions in Ownership of Science Learning. In *Polman, J., Kyza, E., O'Neill, D., Tabak, I., Penuel, W., Jurow, S., O'Connor, K., Lee, T., & D'Amico, L., (Eds.) Learning and Becoming in Practice: Proceedings of the 11th International Conference of the Learning Sciences (ICLS '14)* (pp. 174 - 181). Boulder, CO: International Society of the Learning Sciences. [h5 index – 16, Acceptance rate – 30%]
    * Paper nominated for Best Student Paper award (Top 4%)

16. #Yip, J., **Clegg, T.,** Bonsignore, E., Gelderblom, H., Rhodes, E., & Druin, A. (2013). Brownies or Bags-of-Stuff? Domain Expertise in Cooperative Inquiry with Children. In *Proceedings of the 12th International Conference on Interaction, Design, and Children (IDC '13)*, New York, NY: ACM. [h5 index – 17, Acceptance rate – 33%]

17. **Clegg, T.,** Yip, J., Ahn, J., Bonsignore, E., Gubbels, M., Lewittes, B., & Rhodes, E. (2013). When Face-to Face Fails: Opportunities for Social Media to Foster Collaborative Learning. In *N. Rummel, M. Kapur, M. Nathan, & S. Puntambekar (Eds.), To See the World and a Grain of Sand: Learning Across Levels of Space, Time, and Scale: Proceedings of the Tenth Computer Supported Collaborative Learning Conference (CSCL 2013)* Volume 1 - Full Papers & Symposia (pp. 113 - 120). Madison, WI: International Society of the Learning Sciences. [h5-index – 15, Acceptance rate – 36%]

18. **Clegg, T.,** Bonsignore, E., Yip, J., Gelderblom, H., Kuhn, A., Valenstein, T., Lewittes, B., & Druin, A. (2012). Technology for Promoting Scientific Practice and Personal Meaning in Life-relevant Learning. *Proceedings of the 11th International Conference on Interaction, Design, and Children (IDC '12)* (pp.152-161). New York, NY: ACM. [h5-index – 17, Acceptance rate – 29%]

19. Walsh, G., Druin, A., Guha, M.L., Bonsignore, E., Foss, E., Yip, J., Golub, E., **Clegg, T.,** Brown, Q., Brewer, R., Joshi, A., & Brown, R. (2012). DisCo: A Co-Design Online Tool for Asynchronous Distributed Child and Adult Design Partners. *Proceedings of the 11th International Conference on Interaction, Design, and Children (IDC '12)* (pp. 11-19). New York, NY: ACM. [h5-index – 17, Acceptance rate – 29%]

20. #Yip, J., **Clegg, T.,** Bonsignore, E., Gelderblom, H., Lewittes, B., Guha, M. L., & Druin, A. (2012). Kitchen chemistry: Supporting Learners' Decisions in Science. In *J. van Aalst, K. Thompson, M.J. Jacobson, and P. Reimann, (Eds.), The Future of Learning: Proceedings of the Tenth International Conference of the Learning Sciences (ICLS '12)* - Volume 1, Full Papers (pp. 103 – 110). Sydney, NSW, Australia: International Society of the Learning Sciences. [h5-index – 6, Acceptance rate – 25%]

21. **Clegg, T.,** Gardner, C., & Kolodner, J. (2011). Technology for Supporting Learners in Physically Demanding Out-of-school Learning Environments. In *H. Spada, G. Stahl, N. Miyake, and N. Law (Eds.) Connecting Computer-Supported Collaborative Learning to Policy and Practice: Proceedings of the Computer Supported Collaborative Learning (CSCL '11)* – Volume 1, Full Papers (pp. 248-255), Hong Kong, China: International Society of the Learning Sciences. [Acceptance rate – 38%]

22. **Clegg, T.,** Gardner, C., & Kolodner, J. (2010). Playing with Food: Turning Play Into Scientifically Meaningful Experiences. In *K. Gomez, L. Lyons, & J. Radinsky (Eds.) Learning in the Disciplines: Proceedings of The International Conference of the Learning Sciences (ICLS '10)* – Volume 1, Full Papers (pp. 1135-1142). Chicago, IL: International Society of the Learning Sciences.

23. Abler, R., Krogmeier, J., Ault, A., Melkers, J., **Clegg, T.,** & Coyle, E. (2010). Enabling and Evaluating Collaboration of Distributed Teams with High Definition Collaboration Systems. Paper presented at the *2010 American Society for Engineering Education Annual Conference & Exposition*, Louisville, KY.

24. **Clegg, T.,** Gardner, C., Williams, O., & Kolodner, J. (2006). Promoting Learning in Informal Environments. In *Barab, S., Hay, K., & Hickey, D. (Eds.) Making a Difference: Proceedings of the International Conference of the Learning Sciences (ICLS '06)* (pp. 92 - 98). Mahwah, NJ: Erlbaum.

Conferences, Workshops, and Talks
Keynotes

25. **Clegg, T.** (2014). **Keynote:** *ScienceKits for Science Everywhere: Technology for Integrating the Building Blocks of Disposition*. Presented at the Obermann Working Symposium on Designing the Digital Future: A Human-Centered Approach to Informatics. University of Iowa, Iowa City, IA.

26. **Clegg, T.** (2013). **Keynote:** *The Potential of Technology for Enhancing Scientific Disposition Development*. Presented at the 2nd Annual Learning Science Workshop: Research and Innovation for Enhancing Achievement and Equity. Carnegie Mellon University, Pittsburgh, PA.

Invited Talks

27. **Clegg, T.** (2016). *Scientizing Daily Life with New Social, Mobile, & Wearable Technologies*. Presented at the Learning Sciences Colloquium. Northwestern University, Evanston, IL.

28. **Clegg, T.** (2016). *Scientizing Daily Life with New Social, Mobile, & Wearable Technologies*. Presented at the University of North Carolina at Charlotte Association

for Computing Machinery – Women Chapter. University of North Carolina at Charlotte, Charlotte, NC.

29. **Clegg, T.** (2016). **Plenary:** *Science Everywhere: Social & Ubiquitous Technology for Helping Children Scientize Everyday Life*. Presented at the 2016 Annual Human-Computer Interaction Lab Symposium. University of Maryland, College Park, MD.

30. **Clegg, T.** (2016). *Scientizing Daily Life with New Social, Mobile, & Wearable Technologies*. Presented at the 2016 National Science Foundation (NSF) Advancing Informal STEM Learning (AISL) Program Principal Investigator Meeting. Cyberlearning & Computer Science Session. Bethesda, MD.

31. **Clegg, T.** (2015). *Scientizing Daily Life with New Social, Mobile, & Wearable Technologies*. Presented at the Center for Research on Learning and Technology Speaker Series. Indiana University, Bloomington, IN.

32. **Clegg, T.** (2015). *Scientizing Daily Life with New Social, Mobile, & Wearable Technologies*. Presented at the Cyberlearning 2015: Connect, Collaborate, and Create the Future Conference. The Center for Innovative Research in Cyberlearning. Arlington, VA.

33. **Clegg, T.** (2013). *The Potential of Technology for Enhancing Scientific Disposition Development*. Presented at the Center for Math Education Colloquium. College Park, MD.

34. **Clegg, T.**, (2011). *Technology for Supporting Life-Relevant Learning in Science*. Presented at the Human-Centered Computing Lecture Series. Clemson University. Clemson, SC.

35. **Clegg, T.** (2011). *The Role of Out-of-school Programs for Promoting the Development of Learners' Scientific Identity*. Presented at the DFG-NSF Conference on the Public Understanding and Public Engagement with Science, New York, NY.

Refereed Presentations

36. #Yip, J., **Clegg, T.,** Druin, A., Guha, M. L., Bonsignore, E., Foss, E., Golub, E., & Walsh, G. (2012). *Cooperative inquiry in designing technology in life-relevant learning for science.* Paper presented at the American Educational Research Association Conference, Vancouver, BC, Canada.

37. **Clegg, T.,** & Kolodner, J. (2010). *Making Science Social: A Closer Look at How Social Interactions Impact Scientific Participation.* Paper presented at the American Educational Research Association Conference, Denver, CO.

38. **Clegg, T.** (2008). *Kitchen Science Investigators: Building Identity as Scientific Reasoners and Thinkers.* Presented at the International Conference of the Learning Sciences Doctoral Consortium, Utrecht, The Netherlands.

Refereed Posters

39. Boston, C., **Clegg, T.,** Pauw, D., Preece, J., Warrick, E., Abdellahi, S., Christian, T., Grace, K., Maher, M.L., Cameron, J., & Yeh, T. (2017). Technology for Watershed Stewards. In C. Lee & S. Poltrock (Eds.), *20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '17)*. Portland, OR.

40. #Pauw, D., Warrick, E., Boston, C., Preece, J., & **Clegg, T.** (2017). Connecting Affinity Spaces to Places and Back: A Look at Pokemon Go. In *C. Lee & S. Poltrock (Eds.), 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '17)*. Portland, OR.

41. **Clegg, T.,** Ahn, J., & Yip, J. (2016). ScienceKit for Science Everywhere: A Seamless Scientizing Ecosystem for Raising Scientifically Minded Children. Poster presented at the *American Educational Research Association Conference (AERA '16)*, Washington, DC.

42.   Bonsignore, E., Ahn, J., **Clegg, T.,** Yip, J., Pauw, D., Gubbels, M., Lewittes, B., & Rhodes, E. (2014). Selfies for Science: Collaborative Configurations Around ScienceKit. In *Proceedings of the Computer Supported Cooperative Work and Social Computing Annual Conference (CSCW '14)*. Baltimore, MD.

43.   Ahn, J., Gubbels, M., Yip, J., Bonsignore, E., & **Clegg, T.** (2013). Using Social Media and Learning Analytics to Understand How Children Engage in Scientific Inquiry. In *Proceedings of the Interaction, Design, and Children Annual Conference (IDC '13)*, New York, NY.

44.   Gardner, C. M., **Clegg, T.,** Williams, O. L., & Kolodner, J. L. (2006). Messy Learning Environments: Busy Hands and Less Engaged Minds. In *S. Barab, K. Hay, & D. Hickey (Eds.), Proceedings of The Seventh International Conference of the Learning Sciences (ICLS '06)* (pp. 926-927). Bloomington, IN.

Symposia

45.   #Bonsignore, E., Ahn, J., **Clegg, T.,** Guha, M.L., Yip, J., & Druin, A. (2013). Embedding Participatory Design into Designs for Learning: An Untapped Interdisciplinary Resource? Symposium presented at *the Tenth Annual Conference of Computer Supported Collaborative Learning (CSCL '13)*, Madison, WI.

46.   Tate, E., **Clegg, T.,** Zimmerman, H., Gardner, C., Sato, T., Calabrese-Barton, A., & Brown, B. (2013). Inside Personally Relevant Science Learning Contexts: How Do Learners Connect Science to their Everyday Lives? Symposium presented at *the National Association for Research in Science Teaching (NARST '13)*. Rio Grande, Puerto Rico.

47.   Rick, J., DeVane, B., **Clegg, T.,** Peters, V., Goldman, S., & Hmelo-Silver, C. (2012). Learning as Identity Formation: Implications for Design, Research, and Practice. Symposium presented at *the Tenth International Conference of the Learning Sciences (ICLS '12) International Conference of the Learning Sciences (ICLS '12)*, Sydney, Australia.

Workshops

48.   Ahn, J., **Clegg, T.,** Yip, J., Bonsignore, E., & Rick, J. (2015). Innovations in Interaction Design & Learning. Workshop hosted at the *Interaction, Design, and Children Annual Conference (IDC '15)*. Boston, MA.

49.   Ahn, J. & **Clegg, T.** (2015). Crafting Successful Learning Technology Proposals. *Human-Computer Interaction Lab Annual Symposium*. College Park, MD.

50.   Ahn, J., & **Clegg, T.,** (2014). Hack Education: Designing Learning Futures!, Workshop organized at the *Human-Computer Interaction Lab Annual Symposium*, College Park, MD.

51.   Gardner, C., & **Clegg, T.** (2009). Kitchen Science Investigators (KSI): Kicking up the Science a Notch in Your After-school Program, *National Afterschool Association Workshop*. New Orleans, LA.

Professional and Extension Publications
Non-Refereed Journal Articles

52.   **Clegg, T.,** Ahn, J., Yip, J., Bonsignore, E., & Pauw, D. (2016). Scientizing with ScienceKit: Social Media and Storytelling Mobile Apps for Developing Playful Scientist Dispositions. *Educational Technology*, 56(3), 23-28.

Significant Works in Public Media
Explanatory, Investigative, or Long-Form Journalism

53.   Lagorio, C. (2008, January 4, 2009). Kitchen Chemistry for Middle Schoolers. *The New York Times* http://www.nytimes.com/2009/01/04/education/edlife/ideas-kitchenscience-t.html.

TV / Radio Broadcast
54.   *Get The Gray Matter Cooking*. (2008). *The Next Big Thing*. U.S.: CNN http://www.cc.gatech.edu/news/multimedia/video/kitchen-science-investigators.

<u>Sponsored Research and Programs – Administered by the Office of Research Administration (ORA)</u>
Grants
55.   Principal Investigator Mega Subramaniam, Co-Investigators **Tamara Clegg** and Paul Jaeger, Institute of Museum and Library Studies, Youth Experience (YX): Embracing Participatory Design and Design Thinking in Children and Youth Librarianship, $396,052, September 2016 - August 2019
56.   Principal Investigator Jennifer Preece, Co-Investigators **Tamara Clegg**, Mary Lou Maher, and Tom Yeh, National Science Foundation Award IIS-1423207, AISL: Innovations in Development: Community-Driven Projects That Adapt Technology for Environmental Learning in Nature Preserves, $2,390,552 (Total Award) $1,195,643 (University of Maryland budget for collaborative), April 2015 - March 2019
57.   Principal Investigator Jon Froehlich, Co-Investigator **Tamara Clegg**, National Science Foundation Award IIS-1441184, EXP: BodyVis: Advancing New Science Learning and Inquiry Experiences via Custom Designed Wearable On-Body Sensing and Visualization, $550,000, October 2014 – September 2017
58.   Principal Investigator **Tamara Clegg**, Co-Investigators June Ahn and Jason Yip, National Science Foundation Award IIS-1441523, DIP: ScienceKit for ScienceEverywhere - A Seamless Scientizing Ecosystem for Raising Scientifically-Minded Children, $1,419,391, October 2014 – September 2018

<u>Gifts, and Funded Research not administered by ORA</u>
Gifts *(solicited and in-kind funds)*
59.   Academy of Innovation and Entrepreneurship (2014), Hack Education: Designing Learning Futures! Workshop Supplement. $2,000

<u>Centers for Research, Scholarship, and Creative Activities</u>
Symposia Organized *(though center)*
60.   Ethan Hutt & Daniel Klasick, Teaching and Learning, Policy and Leadership Seminar Series, Maryland Equity Project. Monthly departmental research seminar. September 2013 – 2015

<u>Research Fellowships, Prizes and Awards</u>
61.   Principal Investigator Marshini Chetty, Co-Investigator **Tamara Clegg**, Google Faculty Fellowship Award, Keeping Kids Safe: Understanding Kids' Mental Models of Online Safety on Mobile Devices, $46,100, September 2016 - August 2017
62.   Computing Innovation Fellow, Computing Research Association, 2010 – 2012, $280,000 over two years [Allocated Share: 100%, $140,000]

<u>Submissions and Works in Progress</u>

Manuscripts Submitted
63. Kumar, P., Naik, S., Devkar, U., Chetty, M., **Clegg, T.,** & Vitak, J. (Submitted). 'No Telling Passcodes Out Because They're Private': Understanding Children's Mental Models of Privacy and Security. Submitted to the *Proceedings of the 2018 Computer Supported Cooperative Work Conference (CSCW '18)*. New York, NY: ACM.
64. **Clegg, T.,** Preece, J., Warrick, E., Pauw, D., Boston, C., & Cameron, J. (Submitted). Community-Driven Informal Adult Environmental Learning: Using Theory as a Lens to Identify Steps Toward Concientización. Submitted to the *Journal of Environmental Education.* [Impact Factor – 1.033]

Manuscripts in Preparation
65. **Clegg, T.** The Scientific Pastry Chef and the Tinkering Socialite: Connecting Hybrid Roles to Broader Identities in Science. Manuscript in preparation for submission to the *Journal of the Learning Sciences*.

Teaching, Extension, Mentoring, and Advising
<u>Courses Taught</u>
INST 652 (online), Design Thinking and Youth, Spring 2017, 15 students
EDCI 788Q, Theories of Learning and Leadership with Technology, Fall 2016, 8 students
EDCI 611, Studying Student Learning in Diverse Settings (Laurel College Center), Spring 2016, 18 students
INST 652 (online), Design Thinking and Youth, Spring 2016, 6 students
EDCI 611, Studying Student Learning in Diverse Settings (Laurel College Center), Fall 2015, 11 students
EDCI 687, Applications of Computers in Instructional Settings, Spring 2013, 4 students
EDCI 687, Applications of Computers in Instructional Settings, Spring 2014, 11 students
EDCI 687, Applications of Computers in Instructional Settings, (Shady Grove), Fall 2014, 20 students
EDCI 697, Embracing Diversity in Classroom Communities, (Shady Grove). Spring 2015, 20 students
EDCI 788Q, Theories of Learning and Leadership with Technology, Spring 2014, 8 students
INST 632, Human-Computer Interaction Design Methods, Fall 2012, 15 students
INST 632, Human-Computer Interaction Design Methods, Fall 2013, 16 students
LBSC 708N, Human-Computer Interaction Design Methods, (Co-Instructor), Fall 2011, 14 students

<u>Teaching Innovations</u>
Major Programs Established
1. Co-developed Post-Masters Certification Program for Youth Experience in the College of Information Studies
2. Worked with TLPL colleagues to design and implement a new cross-divisional Ph.D. specialization in Teaching, Learning, and Leadership

Course or Curriculum Development
1. INST 652: Design Thinking & Youth, (2015-2016) Developed course curriculum for new Master of Library Science, Youth Experience (YX) Specialization and Youth Experience Post-Masters Certification online core course

2.   EDCI 788Q: Theories of Learning and Leadership with Technology, (2013)
3.   EDCI 687, Applications of Computers in Instructional Settings (2012) (created new syllabus for special topic of Design of Learning Technologies)

<u>Advising: Research or Clinical</u>
Undergraduate
1.   *Tobin Valenstein*, 2012, College of Mathematics and Natural Sciences, Co-advisor of senior project
2.   *Monica Katzen*, Fall 2016 – Present, College of Mathematics and Natural Sciences, Co-advisor on BodyVis research project

Master's
1.   *Panos Papadatos*, Completed May 2012, Human-Computer Interaction Masters Program, College of Information Studies, Co-advisor of Masters project
2.   *Murat Akkus*, Completed December 2013, Master of Education (Mathematics Education), Committee member
3.   *Jaison Cooper*, Completed May 2014, Student Affairs Concentration Masters of Education, Advisor of Master Seminar Paper
4.   *Leyla Norooz*, Completed May 2014, Human Computer Interaction Masters Program, College of Information Studies, Committee member
5.   *Alina Goldman*, Completed July 2014, Human Computer Interaction Masters Program, College of Information Studies, Committee member
6.   *Steven Dodge*, Completed 2014, Masters of Information Management, College of Information Studies, Committee member
7.   *Vanessa Oguamanam*, Fall 2014 – Spring 2016, Research advisor, BodyVis project
8.   *Vanessa Oguamanam*, Fall 2016, HCIM Capstone Advisor
9.   *Angelisa Plane*, Fall 2014 – Spring 2016, Research advisor, BodyVis project
10.   *Rafael Velez,* Fall 2016 – Present, Research advisor, BodyVis project

Doctoral: Thesis Advisor
1.   *Daniel Pauw*, 2013 – Present, Advisor
2.   *Lautaro Cabrerra*, 2016 – Present, Advisor
3.   *Kenna Hernley*, 2016 – Present, Co-Advisor (with Margaret Walker)
4.   *Leyla Norooz*, 2016 – Present, Co-Advisor (with Allison Druin)

Doctoral: Thesis Committee
1.   *Toya Jones Frank*, Completed Summer 2013, Widgets and Digits: A Study of Novice Middle School Teachers Attending to Mathematics Identity in Practice, George Mason University, College of Education and Human Development, Committee Member
2.   *Jason Yip*, Completed Fall 2013, The Evolution of Science Ownership in Learners Engaged in Design and Technology Usage, University of Washington iSchool, Committee Member
3.   *Bryce Walker*, Completed Fall 2015, Dimensions Related to the Role of a Technology Coordinator in Schools that Serve Students with Language-Based Learning Differences, Committee Member
4.   *Anne Bowser*, Completed Fall 2015, Cooperative Design, Cooperative Science: Investigating Collaborative Research through Design with Floracaching, Committee Member

5.   *Kelsey Pope*, Completed Fall 2016, #BlackLiteracyLivesMatter: Revealing African-American Adolescents' Multimodal Literacy Practices in Online Social Networks at a Community Center, Committee Member
6.   *Thomas Coleman*, Completed Spring 2017, Examining Secondary Teachers' Interaction with Interactive Diagrams in Mathematics Instruction, Committee Member
7.   *Anthonoy Pellicone*, Completed Spring 2017, Performing Play: Cultural Production on Twitch.tv, Committee Member
8.   *Amy Green*, Fall 2014 – Present, Chesapeake Bay Foundation, Committee Member, Proposal Defense
9.   *Gina Quan*, Fall 2015 – Fall 2016, Becoming a Physicist: Supporting the Development of Student Identities in Practice, Committee Member, Proposal Defense
10.   *Amanda Waugh,* Fall 2016 – Present, Nerdfighters and their Information Practices: A Study of Everyday Life Information Seeking in an Online Fan Community, Committee Member, Proposal Defense
11.   *Brenna McNally,* Fall 2016 – Present, Participant Perspectives on their Membership in an Intergenerational Participatory Design Team, Committee Member, Proposal Defense
12.   *Elizabeth Warrick,* Fall 2016 – Present, Social Media and the Shifting Context of Indigenous Environmental Stewardship, Committee Member, Proposal Defense

Doctoral: Research Project Advisor
1.   *Amy Green*, Fall 2014 – Spring 2015, Chesapeake Bay Foundation, Research advisor, BodyVis project
2.   *Leyla Norooz*, Fall 2014 – Present, Research advisor, BodyVis project
3.   *Kelly Mills,* Fall 2015 – Present, Research advisor, Science Everywhere project
4.   *Virginia Byrne*, Fall 2016 – Present, Research advisor, BodyVis project

Other Directed Research *(e.g. K-12 Interactions)*
1.   *Amanda Waugh*, Spring 2014, Annual Review Committee
2.   *Anthony Pellicone*, Spring 2014, First Year Review committee member
3.   *Emily Hestness*, Summer 2014, Comprehensive Exam Reader
4.   *Amy Green*, Spring 2014, Comprehensive Exam Reader
5.   *Elizabeth Singleton*, Summer 2014, Comprehensive Exam Reader
6.   *Brenna McNally*, Fall 2014, First Year Review Committee Member
7.   *Leyla Norooz*, Fall 2014, First Year Review Committee Member
8.   *Marina Cardoso*, Fall 2015, First Year Review Committee Member
9.   *Xiaoyang Gong*, Fall 2015, Comprehensive Exam Reviewer
10.   *Amanda Waugh,* Spring 2015, Integrative Paper Committee
11.   *Brenna McNally,* Spring 2016, Integrative Paper Committee
12.   *Leyla Norooz,* Spring 2016, Integrative Paper Committee
13.   *Kelly Mills,* Spring 2016, Comprehensive Exam Reviewer

Professional and Extension Education
Guest Lectures
1.   CSCI 4250: Human-Computer Interaction, Computer Science Department, University of Nebraska at Omaha (Spring 2017)
2.   LBST 2213: Science, Technology, and Society, Department of Software and Information Systems, College of Computing and Informatics, University of North Carolina at Charlotte (Fall 2016)

3. EDHD 7712: Learning and Human Development, School of Education and Human Development, University of Colorado, Denver (Fall 2016)
4. CSCI 4250/8256: Human-Computer Interaction, Computer Science Department, University of Nebraska at Omaha (Fall 2014)
5. EDCI 791: Qualitative Research I: Design and Fieldwork, Department of Teaching and Learning, Policy and Leadership, College of Education, University of Maryland (Fall 2013, Fall 2014)

Teaching Awards
1. Faculty Lilly Fellow 2014-2015, University of Maryland's Center for Teaching Excellence, the Office of Undergraduate Studies and the Academy for Innovation and Entrepreneurship. $4000

Service and Outreach
Editorships, Editorial Boards, and Reviewing Activities
Reviewing Activities for Journals and Presses
1. Reviewer, *Journal of Research in Science Teaching*, 2016
2. Reviewer, *Science Education*, 2016
3. Reviewer, *Journal of Science Education and Technology*, 2015
4. Reviewer, *IEEE Special Issue on Wearables and the Internet of Things*, 2015
5. Reviewer, *International Journal of Child-Computer Interaction*, 2014 – 2015
6. Reviewer, *Instructional Science*, Reviewed three journal articles submitted to the journal, 2012
7. Reviewer, *Journal of the Learning Sciences*, Reviewed one journal article submitted to the journal, 2007

Reviewing Activities for Agencies and Foundations
1. Panelist, National Science Foundation, EHR Directorate, reviewed 7 proposals, January 2017
2. Panelist, National Science Foundation, 2015, CISE Directorate, reviewed 8 proposals, March 2015
3. Panelist, National Science Foundation, EHR Directorate, reviewed 7 proposals, March 2013
4. Panelist, National Science Foundation, CISE Directorate, reviewed 6 proposals, October 2013
5. Panelist, National Science Foundation, CISE Directorate, reviewed 8 proposals, February 2012
6. Panelist, National Science Foundation, CISE Directorate, reviewed 6 proposals, October 2012
7. Panelist, National Science Foundation, EHR Directorate, reviewed 8 proposals, October 2010

Reviewing Activities for Conferences
1. Reviewer, The ACM Conference on Computer-Supported Cooperative Work and Social Computing, Review posters submitted to the conference, 2016
2. Reviewer, Fablearn Digital Fabrication in Education Conference, Review full and short papers submitted to the conference, 2014
3. Reviewer, The Interaction, Design and Children Annual Conference, Program committee member. Review full and short papers submitted to the conference, 2012 – 2017

4. Reviewer, The ACM CHI Conference on Human Factors in Computing Systems, Review CHI works in progress and full paper submissions to the conference, 2010 – 2016
5. Reviewer, The International Conference on Computer Supported Collaborative Learning, Review full and short papers submitted to the conference, 2010 – 2017
6. Reviewer, American Educational Research Association, Review full paper, symposium, and short paper submissions to the conference, 2010 – 2016
7. Reviewer, the International Conference of the Learning Sciences, Review full and short papers submitted to the conference, 2008 – 2015

Committees, Professional & Campus Service

Campus Service – Department

1. Member, Learning Sciences – Learning with Technologies Faculty Search Committee, Department of Teaching and Learning, Policy and Leadership, College of Education and College of Information Studies, Fall 2016
2. Member, Merit Pay Committee, Department of Teaching and Learning, Policy and Leadership, College of Education, 2014 – 2015
3. Member, Website Committee, Department of Teaching and Learning, Policy and Leadership, College of Education, 2013 – 2016
4. Member, Departmental Research Seminar Planning Committee, Teaching and Learning, Policy and Leadership, Department of Teaching and Learning, Policy and Leadership, College of Education, 2013 – 2015
5. Member, Doctoral Specialization Development Committee, Teaching, Learning, and Leadership Department of Teaching and Learning, Policy and Leadership, College of Education, 2012 – Present

Campus Service – College

1. Member, Master's in Library Science Committee, College of Information Studies, Fall 2016 – Present
2. Member, MLS Professional Track Lecturer Search Committee, Spring 2016
3. Member, Innovation and Partnership Advisory Committee, 2016
4. Member, Youth Experience Specialization Development Committee, 2015 – Present
5. Member, Diversity Committee, College of Information Studies, 2013 – 2014
6. Member, Associate Director of Communications Search Committee, College of Education, 2013
7. Member, Advisor Search Committee, College of Information Studies, 2013

Campus Service – University

1. Member, Director of Teaching and Learning Transformation Center Search Committee 2015

Leadership Roles in Meetings and Conferences

1. The Interaction, Design and Children Annual Conference, **Program Co-chair of short papers**, 2017
2. **Chair**, Advanced Learning Technologies SIG - American Educational Research Association (AERA), Program chair (2015 - 2016) and then chair (2016 - 2017) for the Advanced Learning Technologies Special Interest Group of AERA
3. The Interaction, Design and Children Annual Conference, **Associate Chair of full papers**, 2015
4. The International Conference of the Learning Sciences, **Senior reviewer** for a set of full paper submissions, 2014

Other Non-University Committees, Memberships, Panels, etc.
>   1.   Member, Newsletter Committee, International Society of the Learning Sciences, 2011 – 2015

External Service and Consulting
Community Engagements, Local, State, National, International
>   1.   2015 Mentor in Developing Cyberlearning Proposals Workshop at Tuskegee University, Stanford Research Institute/National Science Foundation

Non-Research Presentations
Outreach Presentations
>   1.   **Clegg, T.** (2016). *Scientizing Daily Life with New Social, Mobile, & Wearable Technologies*. Presented at the Christian Men's Fellowship Quarterly Meeting. St. James Church, Wilson, NC.
>   2.   **Clegg, T**. (2013). *Technology-Enhanced Learning Experiences for Life-Relevant Learning in Science.* Presented at the Degau Korean Teachers Professional Development Institute. Department of Teaching and Learning, Policy and Leadership. College Park, MD.

Service Awards and Honors
>   1.   **AT&T Laboratories Fellowship Award (2004 – 2007):** Selected to receive the fellowship covering all educational expenses. The fellowship is awarded to outstanding under-represented minority and women students who are pursuing Ph.D. studies in computer and communications-related fields.
>   2.   **College of Computing Best Undergraduate Teaching Assistant (2008):** Award recipient for guest lecturing, advising students, and assisting in grading responsibilities for an undergraduate course.
>   3.   **Facilitating Academic Careers in Engineering (2003 – 2010):** Fellowship provided a stipend and monthly enrichment workshops to African-Americans attaining doctorates in engineering and science.