

## EDUCATION

**University of Pennsylvania**, Graduate School of Education, Philadelphia, PA  
Ed.D, Educational Foundations & Practices Division; May 2012

**Columbia University**, Graduate School of Arts & Sciences, New York, NY  
Masters of Arts Degree, English Literature; May 2003

**Boston College**, College of Arts & Sciences, Chestnut Hill, MA  
Arts & Sciences Honors Program; Cross & Crown Society  
Bachelor of Arts Degree, English; May 1999

## UNIVERSITY TEACHING EXPERIENCE

2012 - Present

### **College of Charleston - Assistant Professor**

School of Education, Health, & Human Performance  
Secondary Division - Learning Technologies  
86 Wentworth Street #318, Charleston, SC 29401

*EDFS -326/ 687 Incorporating Digital Technology in K-12 Classrooms*

*Instruct both undergraduate and Masters level courses with a focus on multimedia, software and hardware applications, as well as introductory computer science and coding.*

*EDEE-459/ EDFs 460 of Middle & Secondary Grades Clinical Practice*

*Supervise student-teachers' instruction and assist with the development of their daily lesson plans and long-range curricula plans*

*FYSE 138 The Nature of Solitude: Sacred & Secular, Voluntary and Involuntary*

*Freshman seminar course focusing on solitude as both a practice and state of being; readings explore the relationship between solitude and creativity, spirituality, technology, and loneliness*

*MTLA-678 Instruction & Assessment of Older Literacies Learners*

*Instruct Masters level coursework in the ever-expanding conception of what it is to be literate in 21<sup>st</sup> century schools and workplaces and how educators can effectively assess such communication*

*MTLA-702 Research & Development Capstone*

*Oversee Masters level teachers' research projects, including data collection and analysis*

*Doctoral Student Supervision: Advisor for George Austin, University of South Carolina, Columbia  
Thesis "Debugging as Editing: Computer Science in the Writing Curriculum"*

### **University of Pennsylvania - Instructor**

Spring 2010 & 11

School of Engineering and Applied Sciences (SEAS)  
220 South 33<sup>rd</sup> Street, Philadelphia, PA 19104

*EAS-285 Teaching Computer Science Basics*

*Co-teacher of a cross-disciplinary course (Engineering & Education) focusing on the integration of digital media into K-12 pedagogy & curriculum; coordinated undergraduate volunteer teaching at 3 West Philadelphia K-12 schools based on National Science Foundation grants (Broadening Participation in Computing grant #0940511).*

## K-12 EDUCATION & ADMINISTRATION

- Digital Network Group - Chief Technical Writer/ Curriculum Consultant** 2008 - 10  
 1100 Mercantile Lane, Largo, MD, 20774  
*Educational services company using immersive digital technology to provide Title I students (grades K-12) with academic, social, and professional support in an after school setting.*
- Maritime Academy Charter High School - English Department Chair & Teacher** 2005 - 08  
 Arsenal Business Center, 5301 Tacony Street, Philadelphia, PA, 19137  
*Urban charter high school located in Northeast Philadelphia*
- Porter Gaud School - English Teacher** 2003-05  
 300 Albemarle Road, Charleston, SC, 29407  
*Independent, NAIS accredited, K - 12 private school located in downtown Charleston*
- The Princeton Review - SAT/ GRE Instructor** 2000-02  
 2315 Broadway, New York, NY 10024

## BOOKS

- Burke, Q.** (in progress). *Mind the metaphor: The challenge of integrating coding in K-12 curricula*. Cambridge, MA: MIT Press
- Kafai, Y.B & **Burke, Q.** (2016). *Connected gaming: What making video games can teach us about learning and literacy*. Cambridge, MA: MIT Press.
- Kafai, Y.B. & **Burke, Q.** (2014). *Connected code: Why children need to learn programming*. Cambridge, MA: MIT Press.

## JOURNALS & BOOK CHAPTERS

- Burke, Q.** (forthcoming) DIY zones for Scratch design in classroom and club. In S. Humble (Ed.) *The Coding Generation*. New York: Routledge.
- Brought, G. & MacCormick, J.; Bowring, J. & **Burke, Q.**; Cutler, B., Goldschmidt, D., Krishnamoorthy, M., & Turner, W.L.; Huss-Lederman, S., & MacKellar, B.; Tucker, A. (forthcoming). A multi-institutional perspective on H/FOSS projects in the computing curriculum. *ACM Transactions in Computing Education*. New York, NY.
- Burke, Q.** (2016). Mind the metaphor: Charting the rhetoric about introductory programming in K-12 schools. *On the Horizon*. 24(3).
- Kafai, Y.B. & **Burke, Q.** (2016). Constructionist gaming: Understanding the benefits of making games for learning. *Educational Psychologist*, 50(4), 313-34.
- Bowring, J. & **Burke, Q.** (2016). Shaping software engineering curricula using open source communities. *Journal of Interactive Learning Research*, 27(1), 5-26.
- Burke, Q.**, O'Byrne, W., & Kafai, Y.B. (2016). Computational participation: Understanding coding as an extension of literacy instruction. *The Journal of Adolescent & Adult Literacy*, 59(4), 371-75.
- Burke, Q.** & Kafai, Y.B. (2014). A decade of game making for learning: From tools to communities. In H. Agius & M.C. Angelides (Eds.) *The Handbook of Digital Games: Institute of Electrical and Electronics Engineers* (pp. 689-709). New York: Wiley-IEEE Press.
- Mote, C., Kafai, Y.B., & **Burke, Q.** (2013). Epic Win: Utilizing virtual events to promote communication and learning in schools. *Learning & Leading with Technology (ISTE)*, December/January, 16-21.
- Burke, Q.** (2012) From literacy to literacies: One teacher's journey. *Journal of Classroom Research in Literacy*, 5(1) 41-66.

**Burke, Q.** (2012) The markings of a new pencil: Introducing programming-as-writing in the middle school classroom. *Journal of Media Literacy Education*, 4(2), 121-135.

Kafai, Y.B., Roque, R., Fields, D.A., **Burke, Q.**, & Monroy-Hernandez, A. (2012). Collaborative agency in youth online and offline creative production in Scratch. *Research and Practice in Technology Enhanced Learning*, 7(2), 63-87.

**Burke, Q.** (2011). DIY learning: New leadership & new technologies in K-12 schools. In (V.C.X. Wang, Ed.) *Encyclopedia of E-Leadership, Counseling, & Training*. Hershey, PA: IGI Global.

Kafai, Y. B., Fields, D. A., & **Burke, W. Q.** (2010). Entering the clubhouse: Case studies of young programmers joining the online Scratch communities. *Journal of Organizational and End-User Computing*, 22(2), 21-35.

## GRANTS

### National Science Foundation Core Research & Development (\$179,467)

5/16- 5/18

PI - *Boot Camp or University Classroom? Investigating the Effectiveness of Boot Camps in Developing a Diverse Software Development Workforce* (Proposal # 1561705)

A collaborative proposal between the College of Charleston's Department of Education and the Education Testing Researchers (ETR), *Bootcamp or University Classroom?* examines the alternative training settings of coding boot camps both in Santa Cruz, CA (Silicon Valley) and Charleston, SC (Silicon Harbor). The research represents an early step investigating the nature of these rapidly growing intensive boot camps and specifically identifies how these camps compare to the traditional four-year degree in computer science.

### National Science Foundation IUSE Collaborative Project (\$249,007)

9/16- 9/18

Evaluator - *Broadening the Path to the STEM Profession through Cybersecurity Learning* (Proposal # 1700254)

Serve as external evaluator to an exploratory research grant investigating the potential to introduce undergraduate students to cybersecurity learning through cross-disciplinary, entry level coursework. Curricula is project-based learning and taps into multiple disciplines including political and social sciences as well as digital literacy. Duties as evaluator include the development of surveys, interviews, and focus group protocol related to undergraduates' perceptions of cybersecurity as a relevant 21<sup>st</sup> century skill and their experience using the introductory curricular materials.

### IT-oLogy CoursePower:

7/16- 6/18

(\$20,000 over 2016-17 & \$10,000 over 2017-18)

PI - *Meeting in the Middle: Developing a Computer Science Pathway for Pre-Service M.S. Teachers*

This grant supplies "seed" money by which to develop and begin to evaluate a middle school pre-service teacher preparation program to prepare undergraduates to teach computer science on the middle school level in South Carolina.

### Making the Future Mini-Grant (\$10,000)

Summer 2016

Co-PI - *The Charleston Makers Summer Program*

Through a partnership with local public schools and the College of Charleston, the Charleston Makers Summer Program offers two week-long, full-day summer camp cohorts for middle school students, specifically targeting underrepresented communities. The Program focuses on students designing, coding, and constructing their own homemade rockets using the introductory programming language Scratch, Arduino Software, Tinkercad, and 3D Printing technologies.

**Center for Partnerships to Improve Education (CPIE) Faculty Fellowship** 2015-16  
**(\$53,150)**  
 PI - *Meeting in the Middle: Developing a Middle School Computer Science (CS) Pathway for Lowcountry Schools*

A year-long service and research project to design, implement, and evaluate a semester-long computer science course at a local STEM-oriented charter school. Through this partnership, the school will work closely with PI and a cohort of 3 College of Charleston middle-grades education majors to develop and assess a sustainable CS program—a first for CCSD schools.

**Expanding Computing Education Pathways (ECEP) Mini-Grant** Summer 2015  
**(\$18,360)**

Co-PI - *CS for SC: Computer Science in South Carolina*

A collaboration between the College of Charleston's Education Department, Columbia College's (SC) Computer Science Department, and the non-profit iT-oLogY, this 6 month study examines the state of K-12 computing education within South Carolina. Utilizing state enrollment data in computing coursework, federal data from the National Center for Education Statistics (NCES), and survey responses from individual SC schools, the study offers a baseline examination of where computing currently exists within the state.

**Center for Partnerships to Improve Education (CPIE) Faculty Mini-Grant** 2012-13  
**(\$1,500)**

Awarded start-up funding for the proposal "Digital Storytelling with Scratch" to help establish preliminary computer science outreach to middle schools within Charleston Country School District. Spring 2013 outreach entailed a ten-week creative computing workshop for a class of 6<sup>th</sup> and 7<sup>th</sup> graders at James Island's Apple Charter School.

**Google Computer Science for High Schools (CS4HS) Grant** 2010 & 11  
**(\$18,500)**

Contributor and instructor for the 3-day workshop held at the University of Pennsylvania's School of Engineering; specifically geared toward computer science teachers at struggling Philadelphia public schools, the CS4HS grant focuses on providing these teachers additional training to incorporate the latest technologies within their schools. 3-day workshop included presentations by Penn Engineering faculty and a day-long trip to Google's NYC headquarters.

**Schools in the 21<sup>st</sup> Century Grant** 2008-10  
**(\$12,000)**

Co-writer of the successful grant proposal for the creation of the *Prep Zone*, an after-school tutoring and technology program for students (grades 4-12) at the Philadelphia public school Maritime Charter Academy.

## CONFERENCE PROCEEDINGS - peer-reviewed & published

Burke, Q. (2016, July). *Minding the metaphor*. In the *Proceedings of the International Conference on the Future of Education*, June 30<sup>th</sup> - July 1<sup>st</sup>, Florence, Italy.

Burke, Q. & Mote, C. (2014, June). Feeding competitive streaks and fostering collaborative determination: Grounding STEM coursework in a national video game challenge. In *Proceedings of the 11<sup>th</sup> International Conference of the Learning Sciences*. New York, NY: ACM Digital Library.

Kafai, Y.B. & Burke, Q. (2014, June). Connected gaming: Moving from Instructionist to Constructionist approaches in K-12 serious gaming. In *Proceedings of the 11<sup>th</sup> International Conference of the Learning Sciences*. New York, NY: ACM Digital Library.

Kafai, Y.B. & Burke, Q. (2013, March). The social turn in K-12 programming: Moving from computational thinking to computational collaboration. In *Proceedings of the 44<sup>th</sup> SIGCSE Technical Symposium on Computer Science Education*. New York, NY: ACM Digital Library.

- Kafai, Y.B., Griffin, J., **Burke, Q.**, Slattery, M., Fields, D.F., Powell, R.M., Grab, M., Davidson, S.B. & Sun, J.S. (2013, March). Broadening participation in and perceptions of computing through a pedagogy of cascading mentoring: Implementing a CS community service learning course. In *Proceedings of the 44<sup>th</sup> SIGCSE Technical Symposium on Computer Science Education*. New York, NY: ACM Digital Library.
- Kafai, Y.B., **Burke, Q.** & Mote, C. (2012, June). *What make competitions fun to participate? The role of audience for middle school game designers*. Proceedings of the 11<sup>th</sup> Annual International Interaction Design and Children (IDC), June 12-15, Bremen, Germany (pp. 284-287). New York, NY: ACM Digital Library.
- Burke, Q.** & Kafai, Y.B. (2012, June). *The writers' workshop for youth programmers: Digital storytelling with Scratch in middle school classrooms*. In *Proceedings of the 43<sup>rd</sup> SIGCSE Technical Symposium on Computer Science Education* (pp. 433-38). New York, NY: ACM Digital Library.
- Burke, Q.** & Kafai, Y.B. (2010, June). *Programming & storytelling: Opportunities for learning about code & composition*. Paper presentation at the 9<sup>th</sup> Annual International Interaction Design and Children (IDC) Conference, June 9-12, Universitat Pompeu Fabra, Barcelona, Spain.
- Kafai, Y.B., Peppler, K.A., **Burke, Q.**, Moore, M., Glosson, D. (2010, June). Fröbel's forgotten gift: Textile construction kits as pathways into play, design and computation. Paper presentation at the 9<sup>th</sup> Annual International Interaction Design and Children (IDC) Conference, June 9-12, Universitat Pompeu Fabra, Barcelona, Spain.
- Kafai, Y. B., **Burke, W. Q.**, & Fields, D. A. (2009, September). What videogame making can teach us about access and ethics in participatory culture. In *Breaking new ground: Proceedings of the Digital Games Research Association (DIGRA)*, London, United Kingdom: Brunel University.

## BOOK REVIEWS

- Burke, Q.** (2015, April). A book review of *Minds Online: Teaching effectively with technology*. *Teachers College Record*, New York, NY. <http://www.tcrecord.org> ID Number: 17943

## CONFERENCE PRESENTATIONS & WORKSHOPS

- Burke, Q.** (2017, April). Mind the metaphor. Paper presentation at the 2017 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Antonio, TX.
- Kafai, Y.B. & **Burke, Q.** (2017, April). What can students learn from making games? Findings from a research synthesis. Symposium presentation at the 2017 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Antonio, TX.
- Lyon, L.A., **Burke, Q.**, Denner, J., & Bowring, J. (2017, April). Visions of computer science education at coding boot camps and university classrooms. Symposium presentation at the 2017 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Antonio, TX.
- Burke, Q.**, Schep, M., & Dalton. (2017, March). CS for SC: A landscape report of K-12 computer science in South Carolina. Poster presented at the 48<sup>th</sup> SIGCSE Technical Symposium on Computer Science Education, March 8<sup>th</sup> - 11<sup>th</sup>, Seattle, WA.
- Rumsey, C., **Burke, Q.**, & Thurman, C. (2017, March). Cracking the code: Bringing introductory computer science to a Charleston middle school. Poster presented at the 48<sup>th</sup> SIGCSE Technical Symposium on Computer Science Education, March 8<sup>th</sup> - 11<sup>th</sup>, Seattle, WA.
- Lyon, L.A., **Burke, Q.**, Denner, J., & Bowring, J. (2017, March). Should your college computer science program partner with a coding boot camp? Poster presented at the 48<sup>th</sup> SIGCSE Technical Symposium on Computer Science Education, March 8<sup>th</sup> - 11<sup>th</sup>, Seattle, WA.

- Hall, C., **Burke, Q.**, & Calvert, C. (March, 2017). Launching a summer maker's camp through cross-disciplinary efforts at the College of Charleston. TLT.com Teaching Learning & Technology Annual Conference, March 7<sup>th</sup>, Charleston, SC.
- Lyon, L.A., **Burke, Q.**, Denner, J., & Bowring, J. (2017, April). Visions of computer science education at coding boot camps and university classrooms. Symposium presentation at the 2017 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Antonio, TX.
- Burke, Q.** & Kafai, Y.B. (2015, April). New perspectives for serious gaming: Games that integrate making and playing for learning. Symposium presentation at the 2015 meeting of the American Educational Research Association (AERA), April 9<sup>th</sup> - 12<sup>th</sup>, Chicago, Illinois.
- Burke, Q.**, & Thurman, C. (2016, August). *Mind the metaphor: Charting the metaphors by which to introduce Scratch*. Ignite talk at the 4<sup>th</sup> Scratch Conference, August 4<sup>th</sup> - 6<sup>th</sup>, Massachusetts Institute of Technology, Cambridge, MA.
- Thurman, C., **Burke, Q.**, & Rumsey, C. (2016, June). *Cracking the code: Engaging middle school students with computer science*. Presentation and demonstration at the Charleston Educator Symposium, June 6<sup>th</sup> - 8<sup>th</sup>, Charleston County School District, Charleston, SC.
- Burke, Q.**, Schep, M., & Dalton, T. (2015, October). Landscape Report: K-12 Computing in South Carolina—Results of a State-wide Survey. Paper presentation at South Carolina Annual Ed-Tech Conference, October 24-26<sup>th</sup>, Greenville, SC.
- Burke, Q.** (2015, April). Science learning, complexity, and problem solving in and with technological environments. Discussant for paper presentation at the 2015 meeting of the American Educational Research Association (AERA), April 9<sup>th</sup> - 12<sup>th</sup>, Chicago, Illinois.
- Burke, Q.** & Kafai, Y.B. (2015, April). New perspectives for serious gaming: Games that integrate making and playing for learning. Symposium presentation at the 2015 meeting of the American Educational Research Association (AERA), April 9<sup>th</sup> - 12<sup>th</sup>, Chicago, Illinois.
- Kafai, Y.B. & **Burke, Q.** (2014, August). Connected code: From computational thinking to computational participation. Paper presentation at the 4<sup>th</sup> Scratch Conference, August 6-9, Massachusetts Institute of Technology, Cambridge, MA.
- Mote, C., **Burke, Q.**, & Kafai, Y.B. (2014, June). STEAM video game production for online competitions and collaborations. BYOD session at the 2014 meeting of the International Society for Technology in Education, June 28<sup>th</sup> - July 1<sup>st</sup>, Atlanta, Georgia.
- Kafai, Y.B. & **Burke, Q.** (2014, June). Connected gaming: Moving from Instructionist to Constructionist approaches in K-12 serious gaming. Paper presentation at the 2014 meeting of the International Conference of the Learning Science, June 23<sup>rd</sup> - 27<sup>th</sup>, Boulder, CO.
- Burke, Q.** (2014, April). Leveraging literacy: Interactive digital storytelling with Scratch programming. Poster presentation at the 2014 meeting of the American Educational Research Association (AERA), April 3<sup>rd</sup> -7<sup>th</sup>, Philadelphia, Pennsylvania.
- Burke, Q.** (2014, April). From “tech geeks” to “collaborative makers”: A new agenda for children’s programming. Poster presentation at the 2014 meeting of the American Educational Research Association (AERA), April 3<sup>rd</sup> -7<sup>th</sup>, Philadelphia, Pennsylvania.
- Burke, Q.**, Kafai, Y.B., & Mote, C. (2013, April). The “holding power” of making video games: Grounding STEM coursework in a culture of authentic competition and collaboration. Paper presented at the 2013 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Francisco, California.
- Burke, Q.** (2013, April). Explorations in game design. Chaired roundtable session at the 2013 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Francisco, California.

- Kafai, Y.B., **Burke, Q.**, Griffin, J., Powell, R. Grab, M., Slattery, M., & Davidson, S., & Mote, C. (2013, April). A cascading model: Undergraduates as mentors and mentees in a computer science service learning course. Division C, Section 1e Panel presentation at the 2013 meeting of the American Educational Research Association (AERA), April 27<sup>th</sup> - May 1<sup>st</sup>, San Francisco, California.
- Burke, Q.** (2013, February). To school or not to school: Middle school students' use of Scratch in both classroom and club. Paper presentation at South Carolina Educators for the Practical Use of Research (SCEPUR) Annual Conference, February 7-8<sup>th</sup>, Columbia, SC.
- Burke, Q.** (2012, October). Programming as the new literacy. Paper presentation at South Carolina Annual Ed-Tech Conference, October 24-26<sup>th</sup>, Greenville, SC.
- Burke, Q.**, Kafai, Y.B., & Mote, C. (2012, July). *For the win: Middle-schoolers' use of Scratch in the National STEM Video Game Challenge*. Paper presentation at the 3<sup>rd</sup> Scratch Conference, July 25-28<sup>th</sup>, Massachusetts Institute of Technology, Cambridge, MA.
- Kafai, Y.B., Fields, D.A., **Burke, Q.**, Roque, R., & Blanton, A. (2012, July). *Making together: Supporting Creative Collaboration in Scratch*. Paper presentation at the 3<sup>rd</sup> Scratch Conference, July 25-28<sup>th</sup>, Massachusetts Institute of Technology, Cambridge, MA.
- Burke, Q.** & Kafai, Y.B. (2012, April). *Programming as process: The potential of the writing workshop to integrate computer science into middle-school classrooms*. Paper presented at the 2012 meeting of the American Educational Research Association (AERA), April 13-17<sup>th</sup>, Vancouver, Canada.
- Griffin, J., Kaplan, E., & **Burke, Q.** (2012, March). *Debugems and other deconstruction kits for STEM learning*. Paper presented at the Institute of Electrical and Electronics Engineers (IEEE) Integrated STEM Education Conference, March 9<sup>th</sup>, Ewing, NJ.
- Burke, Q.** & Kafai, Y.B. (2012, March). *The writers' workshop for youth programmers: Digital storytelling with Scratch in middle school classrooms*. Paper presented at the 43<sup>rd</sup> SIGCSE Technical Symposium on Computer Science Education, February 29<sup>th</sup> - March 3<sup>rd</sup>, Raleigh, NC.
- Burke, Q.**, Kafai, Y.B., Griffin, J., Powell, R.M., Grab, M., Davidson, S.B., Sun, J.S. (2012, March). The reflective mentor: Charting undergraduates' responses to computer science service learning. Poster presented to the 43<sup>rd</sup> SIGCSE Technical Symposium on Computer Science Education, February 29<sup>th</sup> - March 3<sup>rd</sup>, Raleigh, NC.
- Burke, Q.** (2012, February). The programming-as-writing workshop: Integrating computer science into the middle school classroom. Paper accepted to the 33<sup>rd</sup> Annual *Ethnography in Education Research Forum*, February 24-25<sup>th</sup>, Philadelphia, PA.
- Burke, Q.**, Monroy-Hernandez, A., & Kafai, Y.B. (2011, April). *Tagging in a community of media creators: Practices that make programs popular in Scratch Online*. Paper presentation at the 2011 meeting of the American Educational Research Association (AERA), April 8 - 12<sup>th</sup>, New Orleans, LA.
- Griffin, J., Kaplan, E., **Burke, Q.**, & Kafai, Y.B. (2011, March). Deconstruction kits in Scratch: Designing Scratch Debugems for learning core programming concepts. Poster presentation at the 42<sup>nd</sup> SIGCSE Technical Symposium on Computer Science Education, March 9-12<sup>th</sup>, Dallas, TX.
- Griffin, J., Kaplan, E., Kafai, Y.B., & **Burke, Q.** (2011, March). A deconstruction kit for the LilyPad Arduino: Designing debugging sets for learning about circuitry & programming among high school students. Poster presentation at the 42<sup>nd</sup> SIGCSE Technical Symposium on Computer Science Education, March 9-12<sup>th</sup>, Dallas, TX.
- Burke, Q.** & Kafai, Y.B. (2010, November). *DIY programming: Critical creation and sometime collaboration using Scratch*. Paper presentation at the DIY Citizenship Conference, November 11-14<sup>th</sup>, University of Toronto, Canada.
- Burke, Q.** (2010, August). *Exploring the relationship between programming & writing: 2 case studies*. Paper presentation at the 2<sup>nd</sup> Scratch Conference, August 12-14<sup>th</sup>, Massachusetts Institute of Technology, Cambridge, MA.

- Burke, Q.** (2010, May). *Programming as writing*. Paper presentation at Teachers College Educational Technology Conference, May 15-16<sup>th</sup>, Columbia University Teachers College, NY.
- Burke, Q.** & Kafai, Y.B. (2010, April). Programming as writing: Opportunities for learning about code and composition. Paper presentation at the annual meeting of the American Educational Research Association (AERA), April 30 - May 4<sup>th</sup>, Denver, CO.
- Griffin, J., Monagan, W., **Burke, Q.**, & Dougherty, J.D. (2010, February). *Computer science as the new 21<sup>st</sup> Century literacy*. [White paper]. Paper presented in Harrisburg at the Pennsylvania Department of Education's meeting on state-wide curriculum and teacher certification for K-12 computer science education.
- Burke, Q.** & Lynch, D. (2009, December). *Faith-based schooling: Changing needs & new challenges*. [White paper]. Paper presented at Penn Graduate School of Education's Faith-Based Learning Conference, December 12<sup>th</sup>, Philadelphia, PA.
- Burke, Q.** (2009, March). The use of home-school contracts at Pennsylvania charter schools. Round-table paper presentation at the 14<sup>th</sup> Annual Harvard Graduate School of Education Student Research Conference, March 13<sup>th</sup>, Cambridge, MA.

## NATIONAL ADVISORY APPOINTMENTS

- Advisory Board, Computer Science for All CS-NYC, The Research Alliance for New York City Schools, New York University Steinhardt School of Education since 2016
  - Work with the NYU Evaluation Team to oversee the implementation of the 10-year, \$81 million computer science initiative for all New York City K-12 public schools
- Advisory Board, Computer Science Task Force, South Carolina Education Oversight Committee since 2016
- Advisory board, South Carolina Mini-Grants Division for "Expanding Computing Education Pathways (ECEP)", National Science Foundation (CNS# 1228355 & 228352) since 2015
- Advisory Board, Charleston SC Chamber of Commerce Computer Science Outreach since 2015
- Advisory Board, Lowcountry Technical Academy, Charleston County Public School, SC since 2015
- Advisory board, "TECHFIT: Combining Fitness and Technology to Spark Interest in STEM National Science Foundation-ITEST Project (DRL #072051394) 2015-17

## INVITED TALKS & WORKSHOPS

- "Implementing Introductory Coding for Gifted & Talented Students" *South Carolina Gifted & Talented Region 5: Gifted by Design—Exploring All Angles*, June 7<sup>th</sup>, 2017.
- "Computer Science in South Carolina High Schools: What Next?" *South Carolina Business Education Association (SCBEA) Annual Meeting*, February 1<sup>st</sup> - 3<sup>rd</sup>, 2017.
- "Launching a Summer Maker's Camp through Cross-Disciplinary Efforts at the College of Charleston". 2<sup>nd</sup> Annual TLT Con: Teaching, Learning, & Technology Conference, March 7-9<sup>th</sup>, 2017.
- "The First Year Experience: Learning to Talk around the Table". Invited Faculty Presentation at the College of Charleston's Accepted Student Weeks, March 19<sup>th</sup>, 2016.
- "Building Your Own Bricks—Using the SNAP Programming Language". Presenter at the Lowcountry Student Career Conference: *Up-Grading Career Domains: Aligning Student Interests with Workforce Need Workforce Needs*, May 18<sup>th</sup>, 2015.
- "Computing in the Arts (CITA) Workshop: Model Curricula". Participant in the National Science Foundation funded (#1044861) workshop on leveraging computer science applications for visual and musical expression. College of Charleston Computer Science Department, May 14<sup>th</sup>- 15<sup>th</sup> 2015.

- “Computer Science Education—Preparing K-12 Teachers”. Panelist at the IT-oLogY South Carolina Summit on IT, March 18<sup>th</sup>, 2015.
- “CS for SC: Where is the State Currently At & Where Can It Go?” *South Carolina Business Education Association (SCBEA) Annual Meeting*, January 28<sup>th</sup> - February 1<sup>st</sup>, 2015.
- “Coding Social: Moving from Computational Thinking to Computational Participation”. *Science and Creativity Annual Conference*, Seoul, South Korea - Keynote Speaker on Computational Thinking, December 6<sup>th</sup>, 2013.
- “The Comeback of Programming: Programming as Communication (& not just Computation) in the 21<sup>st</sup> Century”. *College of Charleston Honors College Lecture Series*, November 15<sup>th</sup>, 2013.
- “Making Things: Education for the 21<sup>st</sup> Century”. *Palms of Promise Teacher Cadet Day*, College of Charleston School of Education, Health, & Human Performance, October 4<sup>th</sup>, 2012.
- “Overcoming the Gender Divide in Computer Science as a Study & Career”. *Tech-Girlz Workshop for Middle School Girls*, Penn Graduate School of Education, October 15<sup>th</sup>, 2011.
- “Teaching Screen-agers: How Should Technology Change what Schools Do?” *Penn Mid-Career Doctoral Program 10th Anniversary*, Wharton School of Business, July 9<sup>th</sup>, 2011.
- “The Future of Social Media & What Parents Need to Know”. *Project Speak-Up*, Gwynedd-Mercy Academy, March 3<sup>rd</sup>, 2011.

## REVIEWER

- Reviewer for MIT Press (2017)
- Reviewer for the National Science Foundation Grant Panel, Computer & Information Science & Engineering Directorate (Arlington, VA - June 2017, May 2015, April 2014, May 2013, June 2012)
- Reviewer for *Journal of Research in STEM Education* (2017)
- Reviewer for *Institute of Electrical and Electronics Engineers (IEEE) Transactions on Education* (2016 & 2017)
- Reviewer for Special Interest Group Computer Science Education (SIGCSE) 2017 Conference, (Seattle, WA, March 2017)
- Reviewer for the *TechTrends: Linking Research & Practice to Improve Learning*. (2016), Association for Educational Communications & Technology, Springer, US
- Reviewer and Committee Member for Computer Science Teachers Association (CSTA) Annual Meeting (San Diego, CA, July 2016)
- Reviewer for the International Conference of the Learning Sciences (Singapore 2016; Boulder, CO 2014; Sydney, Australia 2012)
- Reviewer for the American Educational Research Association (AERA) Annual Conference (Washington, DC 2016; Chicago, IL 2015; Philadelphia, PA 2014; San Francisco, CA 2013)
- Reviewer for *Studies for Education Evaluation* (2015) Elsevier Publishing, Netherlands
- Reviewer for the ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) Conference (Osaka, Japan, September 2015)
- Reviewer for the *Journal of Classroom Research in Literacy* (2011-14), University of Toronto, ON
- Reviewer for Institute of Electrical and Electronics Engineers’ (IEEE) *Computer* magazine, Special Issue on Computer Science Education (July 2013)
- Examiner for the 2011-12 Philadelphia School District Charter School Assessment Team, responsible for reviewing incoming charter school applications and renewals

- Reader and Examiner for the College Board's AP Examination in English Literature (Louisville, KY, June 2011 & 2010)
- Reviewer for *Educational Research* (2010-11), National Foundation for Educational Research, UK.
- Reviewer for 30<sup>th</sup> Annual Ethnography in Education Research Forum (2009), University of Pennsylvania, PA

## HONORS & FELLOWSHIPS

- AERA Outstanding Book Award Nomination** 2015  
Nominated with Yasmin Kafai for MIT Press book *Connected Code: Why Children Need to Learn Programming*.
- Summer Fellowship, Association for Core Texts and Courses (ACTC)** 2014  
Co-represented the College of Charleston as a partner institution for a two-week long international seminar on the role of liberal arts education in 21<sup>st</sup> century learning; the seminar "Tradition and Innovation: Liberal Arts Education through Core Texts" sponsored by the ACTC as well as Columbia University's Core Curriculum Program and Yale University's Directed Studies Program. NY, NY & New Haven, CT, June 1-15<sup>th</sup>.
- 2012 Best Student Paper, American Educational Research Association (AERA)** 2012  
Media Culture & Curriculum (Special Interest Group)  
For the AERA paper submission *Consider the Process: The Potential of the Writing Workshop as a Means to Integrate Computer Programming into Middle School Classrooms*
- Praxis Series: Recognition of Excellence** 2006  
Awarded certificate by ETS for outstanding score (top 15%) on the English Language, Literature, and Composition exam.

## MEDIA & EDITORIALS

- ["Earning a College Degree in Order to Go To Camp?"](#) *Inside Higher Education* (August 29, 2017).
- [South Carolina high schools could require computer coding course for graduation.](#) *The Post and Courier* (March 26, 2017).
- [South Carolina Department of Education introduces K through 8 computer science standards.](#) *The Post and Courier* (December 25, 2016).
- [Code school exam.](#) *The Post and Courier* (September 3, 2016).
- [Coding bootcamps focus of College of Charleston research.](#) *The College Today* (August 8, 2016).
- [Frontiers of digital learning probed by researchers.](#) *Education Week* (May 7, 2015).
- [Professor's book explores computer programming as a new literacy.](#) *The College Today* (July 15, 2014).
- [Programming: A mark of inequality?](#) *Huffington Post* (June 24, 2014).
- [Computer programming goes back to school.](#) *Phi Delta Kappa International* (September 5, 2013).

## PROFESSIONAL MEMBERSHIPS/ SERVICE

<b>Chair, South Carolina Computer Science K-12 Education Steering Committee</b>	since Fall 2016
Statewide consortium promoting K-12 computer science awareness as well as developing standards, curricula, & teacher preparation programs. Consortium funded through wider National Science Foundation support Expanding Computing Education Pathways Grant (CNS# 1228355 & 228352)	
• <b>Member</b>	since 2015
<b>American Educational Research Association (AERA)</b>	since 2009
Division C: Learning and Instruction SIG Learning Sciences, Media, Culture and Curriculum	
<b>Association for Computer Machinery (ACM)</b>	since 2010
<b>Computer Science Teachers Associations (CSTA)</b>	since 2010
<b>National Association for Media Literacy Education (NAMLE)</b>	since 2011
<b>Pennsylvania Level I Secondary Teacher Certification</b>	since 2006
<b>Pennsylvania Association of Computer Science Educators (PACSE)</b>	2009-13
<b>National Council for Teachers of English (NCTE)</b>	2003-06
<b>Charleston Chamber of Commerce Computer Science Advisory Board Member</b>	since 2014
<b>Charleston Lowcountry Technical Academy Board Member</b>	since 2014
<b>Moonstone Pre-School Board Member</b>	2011-12

## SERVICE/ ACTIVITIES – COLLEGE OF CHARLESTON

<b>Chair, College-wide Faculty Committee on Academic Standards (FCAS)</b>	since 2015
• <b>Member</b>	since 2013
<b>Member, TEDU Curriculum Committee</b>	since 2016
<b>Chair, TEDU Research and Professional Development Committee</b>	2014-16
• <b>Member</b>	2013-14
<b>Assessment Committee Member</b>	since 2014
<b>First Year Experience—Invited Faculty Presenter to Accepted Students</b>	spring 2016
<b>Teaching Learning &amp; Technology (TLT)—Pedagogical Cohort on Assessment</b>	fall 2016
<b>Member, Masters in Teaching, Learning, &amp; Advocacy (MTLA) Advisory Board</b>	since 2014
<b>Graduate Council Representative</b>	2013 - 15
<b>First Year Experience Course Orientation</b>	summer 2013
<b>TLT Faculty Technology Institute</b>	summer 2013
<b>First Year Experience Writing Institute</b>	summer 2013