David Quigley

RESEARCH INTERESTS

Learning Analytics
Context and Digital Learning
Student Modeling and Learning
Human-Computer Interaction

EDUCATION

University of Colorado - Boulder
Joint Ph.D. - Computer Science and Cognitive Science   August 2018
Advisor - Tamara Sumner

Georgia Institute of Technology
M.S. Human-Computer Interaction   May 2013

B.S. Computer Science   May 2011

APPOINTMENTS

University of Colorado - Boulder
Research Associate   July 2018 - August 2020
Instructor   August 2018 - August 2020
Assistant Teaching Professor   August 2020 - Present

PUBLICATIONS & PRESENTATIONS

Refereed Journals & Conferences

Melanie Peffer, **David Quigley**, and Mehrgan Mostowfi. 2019. Clustering Analysis Reveals Authentic Science Inquiry Trajectories Among Undergraduates. In Proceedings of the 9th International Conference on Learning Analytics & Knowledge (LAK19), pg 96-100.

David Quigley, Conor McNamara, Jonathan Ostwald, and Tamara Sumner. 2017. Using Learning Analytics to Understand Scientific Modeling in the Classroom. *Frontiers in ICT*, 24 pgs.

David Quigley, Jonathan Ostwald, and Tamara Sumner. 2017. Scientific Modeling: Using Learning Analytics to Examine Student Practices and Classroom Variation. In *Proceedings of the Seventh International Learning Analytics & Knowledge Conference* (LAK '17), pg 329 - 338.

David Quigley, Conor McNamara, and Tamara Sumner. 2017. Using learning analytics in iterative design of a digital modeling tool. In *Proceedings of the Seventh International Learning Analytics & Knowledge Conference* (LAK '17), pg 602 - 603.

David Quigley and Tamara Sumner. 2017. Collaborative Scientific Modeling in the Classroom. In *The 12th International Conference on Computer Supported Collaborative Learning* (CSCL '17), 2 pgs.

David Quigley, Ogheneovo Dibie, Arafat Sultan, Katie Van Horne, William R. Penuel, Tamara Sumner, Ugochi Acholonu, and Nichole Pinkard. 2016. Equity of Learning Opportunities in Chicago City of Learning. In *9th Annual Conference on Educational Data Mining* (EDM '16).

Heather Leary, Samuel Severance, William R. Penuel, **David Quigley,** Tamara Sumner, and Holly Devaul. 2016. Designing a Deeply Digital Science Curriculum: Supporting Teacher Learning and Implementation with Organizing Technologies. *Journal of Science Teacher Education*, Vol 27, iss 1, pg 61 - 77.

William Penuel, Katie Van Horne, Samuel Severance, **David Quigley**, and Tamara Sumner. 2016. Students' Responses to Curricular Activities as Indicator of Coherence in Project-Based Science. In *International Conference of the Learning Sciences 2016* (ICLS 2016).

James Clawson, Thad Starner, Daniel Kohlsdorf, **David Quigley**, and Scott Gilliland. 2014. Texting while walking: an evaluation of mini-qwerty text input while on-the-go. In *Proceedings of the 16th international conference on Human-computer interaction with mobile devices & services* (MobileHCI '14). ACM, New York, NY, USA, 339-348.

Caitlyn E. Seim, **David Quigley**, and Thad E. Starner. 2014. Passive haptic learning of typing skills facilitated by wearable computers. In *CHI '14 Extended Abstracts on Human Factors in Computing Systems* (CHI EA '14). ACM, New York, NY, USA, 2203-2208.

Non-Refereed Presentations

David Quigley, Jonathan Ostwald, and Tamara Sumner. 2016. Local ecosystem survey to understand biodiversity and resilience. In *National Science Teachers Association STEM Forum & Expo 2016* (NSTA '16).

David Quigley, Jonathan Ostwald, and Tamara Sumner. 2016. EcoSurvey: a tool for mapping your local ecosystem. In *International Society of Technology in Education 2016* (ISTE '16).

Samuel Severance, Heather Leary, Raymond Johnson, and **David Quigley**. 2016. Developing Teacher Expertise in the Next Generation Science Standards Through Curricular Co-Design. Structured poster presentation at the *Annual Meeting of the American Educational Research Association 2016* (AERA '16).

TEACHING

Instructor - University of Colorado

CSCI 1300 - Starting Computing - Fall 2020
CSCI 3002 - Foundations of HCI - Spring 2021 to present
CSCI 3022 - Introduction to Data Science - Fall 2020
CSCI 3702 - Cognitive Science - Fall 2018 to Fall 2019

CSCI 4622 - Machine Learning - Fall 2021 to Present
CSCI 5622 - Machine Learning - Spring 2019 to Present
CSCI 5839 - User-Centered Design - Fall 2018

Teaching Assistant - University of Colorado

CSCI 5839 - User-Centered Design - Fall 2014
CSCI 1300 - Intro to Computer Science - Fall 2013 to Spring 2015

Teaching Assistant - Georgia Institute of Technology

CS 3651 - Art of Prototyping Intelligent Appliances - Fall 2012
CS 4660 - Educational Technology - Spring 2012

MENTORSHIP

University of colorado
Spring Break for Research Graduate Student Mentor, March 2016
Discovery Learning Apprentices Graduate Student Poster Mentor, Spring 2016
Discovery Learning Apprentices Graduate Student Mentor, Fall 2016 to Spring 2017
Summer Program for Undergraduate Research Lead Graduate Mentor, Summer 2016

HONORS AND AWARDS

Graduate Student Research Community Development Award - September 2013
Department of Computer Science Outstanding Service Award - May 2016

SERVICE

Institute of Cognitive Science Executive Committee Member - 2015 to 2016, 2018 to 2021
Institute of Cognitive Science Graduate Student Committee Member - August 2013 to June 2018
Computer Science Educational Technology Committee Member - 2021 to Present

PROFESSIONAL ORGANIZATIONS
ACM Member since Spring 2012
SOLAR Member since Spring 2017
ISLS Member since Spring 2017
Ad-Hoc Reviewer, various journals (Computers & Education)