Curriculum Vitae

JAIME ANN MCQUEEN, Ph.D.

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Professional Science Education & Research Portfolio: http://www.jaimemcqueenphd.com

EDUCATION AND CERTIFICATIONS

Ph.D. - Curriculum and Instruction
Texas A&M University-Corpus Christi, Corpus Christi, Texas 5/2017
Educational Technology and Instructional Design emphasis.
Science Teacher Education emphasis.

Dissertation: "*The effects of biology lab delivery mode on academic achievement in college biology ".*

M.S.Ed. - Educational Technology and Instructional Design
Texas A&M University-Corpus Christi, Corpus Christi, Texas 12/2011

B.S. - Biology
Texas A&M University-Corpus Christi, Corpus Christi, Texas 12/2008
Marine Biology/Field Biology emphasis.

Certifications

Consortium for School Networking
Certified Education Technology Leader (CETL), Expected 12/2017

Texas State Board of Educator Certification
Science (Grades 8-12)
Special Education Supplemental (Grades 8-12)
Gifted and Talented Supplemental, Expected 11/2017

SKILLS AND QUALIFICATIONS

Skills

- Technology support and management experience *(Budgets, Computer hardware/ software, Scheduling, Security, Systems analysis, Telecommunications)*
- Educational Technology Project management/ Collaboration/Communication *(face-to-face, distance/remote, and web conferencing based)*
- Expert proficiency in programming languages (C++, *javascript, JSON, PERL,Visual Basic*)
- Educational Technology /IT Training and program plan needs analysis, design, development, evaluation, and integration experience [higher education/K-12 learning environments] *(ADDIE, Agile, ARCS, eLearning, Iterative Process, Lean, Makerspace, SAMR Model, World Café)*
- Educational Technology / IT Program assessment design

- Expert in Educational Technology integration *(Computer learning products, digital curriculum, electronics, AV equipment, Augmented/Virtual Reality/Simulation Applications, Robotics)*
- Expert proficiency in Database/Server/Network administration and maintenance *(Access, client/ server technologies, Java, LAN/WAN, PHP, MySQL, SQL, XML)*
- Expert instructional software knowledge and support experience *(Adobe applications, Cloud Computing, e-mail, Google Edu Apps, MS Office, Student and financial systems)*
- Expert in Mobile and Web Application Design and Development *(ActionScript, Corona SDK, Flash Builder, jQuery, PhoneGap Build, Ruby on Rails, Starling)*
- Educational Technology/ IT Grant writing, Research presentation and publication experience *(National Science Foundation [NSF], Technology plans, AECT, TAAE, SERA, Pathways research symposium)*
- SPSS/ Data analysis, management, and reporting *(Quantitative, Qualitative, and Mixed Methods research methodologies)*
- Website design (*CSS, HTML 5, Dreamweaver, Business Catalyst, Muse*)
- Curriculum and Instruction [K-12/Higher] education- *Educational Technology/ Instructional Design and Science Education specialization*

Qualifications

- Curriculum and Instruction experience
- Program Evaluation, Design, and Project Management experience
- Blackboard/Online/LMS course design and instruction experience
- Instructional Design experience
- Information Technology Industry experience
- Curriculum Design and Development experience
- Project Collaboration experience
- Research publication experience
- Grant and report writing experience (NSF)
- Assessment design, development, and evaluation experience
- Design and Development research experience
- Extensive knowledge of Federal and State Technology standards and reporting *(E-Rate, ePlan, ISTE, NGSS, STAAR, STaR Chart, TAPR, TEDS, TEKS, TPESC)*
- Research / Conference Presentation experience *(AECT, TAAE, SERA, Pathways research symposium)*
- Educational Technology experience
- Computer software/ hardware maintenance and support experience
- Virtual Labs/ Simulation/ Augmented Reality Research experience
- Mobile and Web Application design and development experience
- Website design and computer programming experience
- Database/Server administration and maintenance experience
- Educational/Scientific research experience
- Science research and education experience
- Experience and research in special learning populations *(504, Special Ed., Non-Traditional Students, Online Learners, At-Risk, military students, ESL, SES)*

Note: For linked product samples, please visit my instructional design and education portfolio http://www.jaimemcqueenphd.com .

RESEARCH EXPERIENCE

Texas A&M University - Corpus Christi Corpus Christi, TX
Graduate Research Assistant 6/2014-6/2016

- Implemented instructional design and educational technology skills, performed quantitative and qualitative data analysis. Collaborated in writing NSF grant funded project reports and monitoring instructional technology project needs and progress. Served as project manager, worked with a diverse multi-institutional team to convert a face-to-face genomics ethics course at Texas A&M University-College Station into an online openly distributed Massive Open Online Course (MOOC). Assisted in authoring and presenting project specific professional research publications and conference presentations.

Texas A&M University - Corpus Christi Corpus Christi, TX
Graduate Research Assistant 8/2015-5/2016

- Helped to plan, direct, coordinate, and facilitate the Coastal Bend Regional Science Fair. Implemented project management and technology support skills to deliver professional development training to local school districts, staff, students and their families. Supervised, maintained, and managed the science fair schedule, budget, and ensured financial records and reports. Directed and supervised the work of science fair volunteers and staff. Analyzed relevant research data and published reports.

University of Texas - Marine Science Institute Port Aransas, TX
11/2006-3/2007
Student Research Assistant

- Served as a student mariculture researcher on a grant funded research project. Effectively implemented, managed, and maintained instructional and laboratory technology and materials within budget to enhance research and promote institutional objectives. Efficiently communicated project technology needs to supervisors, ensured project schedule, and identified project related issues. Implemented technology specialist skills to successfully maintain a research database, perform scientific procedures, and collect, analyze, and report project relevant data.

TEACHING EXPERIENCE

Tuloso - Midway ISD Corpus Christi, TX
High School Science Teacher 7/2009-5/2016

- Instructed 9-12 grade students in required science courses for graduation (Aquatic Science, Anatomy and Physiology, Biology, Chemistry, Integrated Physics and Chemistry, and Physics). Served as campus educational technology facilitator, designed and implemented campus based educational technology training and science curriculum, ordered technology. Collaborated with faculty to design, develop, and maintain a student information database and serve the needs of a diverse student population. Increased student standardized test scores in Science.

RELATED PROFESSIONAL EXPERIENCE

Flour Bluff ISD Corpus Christi, TX
Campus Technologist 8/2008-5/2009

- Managed campus technology support, developed a technology plan to meet the instructional and administrative program needs of the campus, district, and community. Maintained budgets, related grants, and schedules to ensure acquisition of campus technology and support. Provided support in: computer software, hardware, programming, and systems maintenance; network/server design and maintenance; audiovisual equipment; and e-mail management. Developed faculty, staff, and students' capabilities through design and delivery of educational technology training.

Texas A&M University-Corpus Christi Corpus Christi, TX
Faculty Hardware/ Software Support Technician 5/2006-6/2008

- Used specialist and troubleshooting skills to efficiently respond to work-orders and provide technology support through software/hardware maintenance on faculty and staff computers. Trained faculty and staff in educational technology, computer skills, and software use. Collaborated with computer support helpline, media services, network services, and telecommunications departments to ensure the technology support objectives of the Information Technology department were met.

Texas A&M University-Corpus Christi Corpus Christi, TX
Faculty Computer Technical Support Helpline Technician 2/2005-5/2006

- Implemented specialist skills to assess client needs, provided phone-based support and training in: computer hardware and software, networking, e-mail, technology systems, and university student and financial systems. Evaluated and monitored client support and schedules, registered and ordered hardware and software, and maintained an online work-order database to ensure efficient operation of the helpdesk. Collaborated with computer hardware/software support, media services, network services, and telecommunications departments to ensure the technology support objectives of the Information Technology department were met.

HONORS AND AWARDS

First Place Research Poster, Doctoral Education. 13th Annual Pathways Student Research Symposium, Prairie View, TX. (November, 2016).

Third Place Winner, Doctoral Presentation. Three Minute Thesis Competition, Texas A&M University-Corpus Christi, Corpus Christi, TX. (November, 2016).

PUBLICATIONS

Refereed Journal Articles

McQueen, J., & Cifuentes, L. (submitted April, 2017). The effects of mode of lab delivery on learning biology concepts. *Computers & Education.*

Cifuentes, L., Park, S. W., McQueen, J., & Riggs, P. (submitted November, 2016). Collaboratively developing e-learning modules and courses across a distance. *International Journal of E-Learning.*

Works in Progress

McQueen, J., & Cifuentes, L. (2017). The effects of biology lab delivery mode on academic achievement in college biology. *Proceedings of the International Association for Educational Communications and Technology annual conference,* Jacksonville, FL.

McQueen, J., & Cifuentes, L. A systematic literature review of instructor presence and learner control in physical and virtual laboratory environments in STEM classes. Article manuscript in progress, to be submitted February, 2018.

McQueen, J., & Cifuentes, L. A qualitative exploration of students' experiences of instructor presence and learner control in physical and virtual labs. Article manuscript in progress, to be submitted December, 2017.

Published Refereed Proceedings

Cifuentes, L., Park, S. W., & McQueen, J. (2015). Designing and developing a case-based MOOC to impact students' abilities to address ethical dilemmas. *Proceedings of the International Association for Educational Communications and Technology annual conference,* Indianapolis, IN.

Dissertation and Thesis

McQueen, J.A. (2017). *The effects of biology lab delivery mode on academic achievement in college biology* (Order No. 10259993). Available from ProQuest Dissertations & Theses Global. (1889186492).

McQueen, J. (2011). *Teaching high school chemistry students to balance chemical equations through the use of an interactive computer learning module* (Unpublished master's thesis). Texas A&M University-Corpus Christi, Corpus Christi, TX.

Other Publications

McQueen, J. (February, 2017). The effects of biology lab delivery on academic achievement in biology in a sample of non-majors college undergraduate students. Accepted conference paper for the 40th Annual Southwest Educational Research Association conference, San Antonio, TX.

McQueen, J. (February, 2016). The effect of virtual laboratory investigations on student achievement in biology. Accepted conference paper for the 39th Annual Southwest Educational Research Association conference, New Orleans, LA.

REFEREED CONFERENCE PRESENTATIONS

McQueen, J., & Cifuentes, L. (February, 2017). *The effects of biology lab delivery mode on academic achievement in college biology.* Accepted concurrent session presentation for the 2017 International Association for Educational Communications and Technology annual conference, Jacksonville, FL.

McQueen, J. (February, 2017). *The effects of biology lab delivery on academic achievement in biology in a sample of non-majors college undergraduate students.* A concurrent session for the 40th Annual Southwest Educational Research Association conference, San Antonio, TX.

McQueen, J. (November, 2016). *The effects of biology lab delivery on academic achievement in biology in a sample of non-majors college undergraduate students: A sequential explanatory mixed methods inquiry*. Award-winning poster session at the 13th Annual Pathways Student Research Symposium, Prairie View, TX.

McQueen, J. (February, 2016). *The effect of virtual laboratory investigations on student achievement in biology.* A concurrent session for the 39th Annual Southwest Educational Research Association conference, New Orleans, LA.

Cifuentes, L., Park, S.W., & McQueen, J. (November, 2015). *Designing and developing a case-based MOOC to impact students' abilities to address ethical dilemmas.* A concurrent session for the International Association for Educational Communications and Technology annual conference, Indianapolis, IN.

McQueen, J. (February, 2014). *The techie teacher*. A concurrent session for the 24th Annual Texas Association for Alternative Education conference, Austin, TX.

SERVICE AND AFFILIATIONS

School Science Fair Judge, 5th Grade Physical Sciences Category. Gloria Hicks Elementary, Corpus Christi, Texas (November, 2016).

Coastal Bend Regional Science Fair student worker. Corpus Christi, Texas (February, 2016).

Coastal Bend Regional Science Fair judge, Junior Division Life Sciences. Corpus Christi, Texas (February, 2014).

Member, Association for Educational Communications and Technology (AECT)

Member, National Science Teachers Association (NSTA)

Member, Golden Key International Honour Society

Member, American Mensa