

Christine Anne McManus

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EDUCATION

Ph.D. in Math and Science Education
Emphasis: Science, Technology, Engineering and Mathematics (STEM) Education
Dissertation: *Teacher Perceptions of Computer Science Education in K-5 Students*.
Washington State University, Pullman, WA.
Graduated: Anticipated May 2024.

Master of Science in Instructional Design and Technology
Capstone: Virtual Reality 360-degree Tour of Johnston Geology Science Museum
Emporia State University, Emporia, KS.
Graduated: May 2019

Graduate Certificate in Educational Research Methods
Washington State University, Pullman, WA.
Graduated: May 2018

Graduate Certificate in Gifted and Talented Education
Southern Utah University, Cedar City, UT.
Graduated: August 2011

Graduate Certificate in Technology Classroom Integration
Graduate Certificate in Technology Applied Skills
University of Nevada Las Vegas /RPDP, Las Vegas, NV.
Graduated: July 2011

Master of Education in Educational Leadership focus on Career and Technical Education
University of Nevada Las Vegas, Las Vegas, NV.
Graduated: December 2010

Associates of Art in Early Childhood Education
College of Southern Nevada, Las Vegas, NV.
Graduated: December 2009

Major: Bachelor of Art in Communication Studies
Minor: Theatre
University of Nevada Las Vegas, Las Vegas, NV.
Graduated: May 1997

Certificate of Completion- Television Production
Certificate of Achievement- Television Production
Leeward Community College, Pearl City, HI.
Graduated: May 1993
Associates of Art- Liberal Art

LICENSES/ADDITIONAL CREDENTIALS

Nevada Teaching License # 15026

- Communications and Media (7th-Adult)
- Computer Software (7th-Adult)
- Gifted and Talented Education (7th-Adult)
- Middle School Mathematics (6th-9th Grade)
- Middle School Social Studies (6th-9th Grade)

International Baccalaureate Middle Years Program Level 2 Technology Teacher

Discovery Network Star Educator

Nevada Registry Certified Trainer for Early Childhood Education- Level 6.2

EXPERIENCE

Middle School Mathematics Instructor (08/2019-Present)

Nevada Virtual Academy, Las Vegas, NV

Duties: Title I, 8th Grade Mathematics Instructor at blended learning program. Teaching basic and below basic mathematics students with RTI Tier supports for increased proficiency levels using a data-centric model.

Graduate Teaching Assistant / Grader (01/2019-05/2020)

Georgia Institute of Technology, Atlanta, GA

Duties: Assist the professor in teaching a graduate course online using Canvas Learning Management System (CS6460 Educational Technology); mentor students developing, writing and conducting research projects; communicate and coordinate with students and faculty on Piazza and Slack.

Graduate Research Assistant (08/2018 – 05/2019)

Emporia State University, Emporia, KS

Duties: Assist individual faculty with conducting research and writing for scholarly activity; reviewing student and thesis papers for grammar, editing, and APA style formatting; and teaching online courses and other duties as assigned.

Graduate Research Assistant (06/2017 – 06/2018)

University of Idaho, Coeur d'Alene, ID

Duties: Mixed-Method Research into K-3 Reading Proficiency in the Coeur d'Alene School District. Conducted Developmental Reading Assessments (DRA2) on K-3rd Grade Students, surveys on K-5th Grade Students, audio-recorded interviews with principals, teachers, and students, classroom videotaped observations. Recorded field-notes from observations, and teacher leader professional academy training. Developed and managed the database of participant information in Excel on MS SharePoint. Updated the Shared Microsoft OneDrive with confidential research data, and the Shared Dropbox folder with research forms and other nonconfidential materials.

Lab Manager / Graduate Research Assistant (08/2015 – 05/2017)

WSU Neurodiversity Labs, Pullman, WA (Neurocognitive Science Lab and Assistive Technology Research and Development Lab)

Duties: Created and managed a database with participant/researcher information. Administered bi-weekly meetings and scheduled lab time with researchers. Created and updated lab protocol for all equipment. Collected and managed IRB's, data/video using Morae User Interface Software. Researched using fNIR, EEG, and other physiological measurement devices. Researched AR, VR and MR devices and applications. Managed/updated 16 lab computers, iOS, Android and Windows Mobile devices, AR, VR, and MR equipment.

Part-Time Online Technology Instructor (09/2012 – 11/2018)

Nevada Connections Academy –Las Vegas, NV

Duties: Teaching secondary courses online using Connexus Learning Management System (3D Art Modeling, Digital Arts I, Emergent Computer Technology 9-12 (HTML Web Design, Introduction to Computers & Information Technology IC3, Business Keyboarding 9-12, Educational Technology and Online Learning 6, 7 and 8, and Grade, HS Introduction to Entrepreneurship I & II), Programming I: VB.NET, Programming II: Java); mentor students developing, writing and conducting project-based learning projects and assessments; communicate and coordinate with students and faculty on Connexus, Google Docs, and Microsoft SharePoint.

Technology and Communications Teacher (02/2010 – 08/2014)

Roy Martin Middle School - Clark County School District (Las Vegas, NV)

Duties: Teaching hybrid secondary courses at a 1 to 1 iPad / Blended and International Baccalaureate® MYP School on Canvas Learning Management System (Television Production I and II, Photojournalism, Intro to Web Design, Computer Graphics, Computer Literacy, Specific Learning Disabled Computer Literacy, and Career Explorations); mentor students developing, writing and conducting project-based learning projects, a daily 5 minute newscast, and assessments; communicate and coordinate with students and faculty on Edmodo, Canvas, and Google Docs and on campus.

Adjunct Web Design Instructor (12/2013 – 05/2014)

ITT Technical Institute (Online)

Duties: Teaching online post-secondary courses on Canvas Learning Management System (WT 2610 Video for the Web); mentor students developing, writing, and conducting project-based learning projects, and assessments; communicate and coordinate with students and faculty on Canvas, Google Docs, and Microsoft SharePoint.

Part-Time Online Technology Instructor (09/2012 – 06/2014)

Virtual High School, Las Vegas, NV

Duties: Teaching online post-secondary courses on Canvas Learning Management System (Intro to Computers); mentor students developing, writing and conducting project-based learning projects, and assessments; communicate and coordinate with students and faculty on Canvas, Google Docs, and Microsoft SharePoint.

Adjunct Visual Communications and Technology Instructor (05/2011 – 03/2012)

ITT Technical Institute, Henderson and North Las Vegas, NV

Duties: Teaching post-secondary courses (VC 100 Introduction to Design, VC 240 Visual Design for the Web, IT 212 Broadcast Graphics, and EG 351 Social Psychology); mentor students developing, writing and conducting project-based learning projects, and assessments; communicate and coordinate with students and faculty on campus.

Preschool Teacher/Owner (10/2007 – 02/2010)

Enchanted Child Care, North Las Vegas, NV

Duties: Owning and operating a State of Nevada licensed family in-home childcare. Full-Time daily care for 6 pre-school students. Instruction of developmentally appropriate curriculum for all students. Enhanced social, emotional, and cognitive skill development. Accounting and record management per federal and state mandates.

IATSE Stagehand (08/1999 – 10/2007)

IATSE Local 720, Las Vegas, NV

Duties: On-call dispatch through the union for various technical; video and audio positions (Video Engineer/Shader, Technical Director, Video Tape Operator, Studio and ENG Camera Operator, PowerPoint Design and Show Operator, AV Technician, Teleprompter Operator, CG Operator (Chyron Lyric (LEX/Hyper X), Maxine/Infiniti and Inscrubber CG Xtreme), ENG and Audio Assistant, Electrical Assistant, and Wardrobe/Dresser. (see Addendum 1); Conventions, keynote support, industrial and broadcast audio/video, and theatrical performances.

Traffic Control Analyst (07/1999 – 03/2001)

Greyhound Exhibition Services (GES), Las Vegas, NV

Duties: Tracking and coordinating freight around the world from a 24-hour call center. Completing reports for the major freight companies, approving all national account freight bills. Excel and Access database programming and management.

Associate Producer (08/1998 – 02/1999)

Visitel Network, Las Vegas, NV

Duties: Produced and edited all commercials for new magazine shows. Video editing completed on Grass Valley and AVID New Cutter Systems. ENG Camera for editorials, commercials, and political advertising.

Production Manager (12/1997 – 07/1998)

Platform Advertising, Kansas City, KS

Duties: Produced and edited commercials & managed tape library. Distributed dubs for various colleges across the United States. Created edited, setup and ran live audio for educational seminars, mixing voice and music.

Marketing Producer (08/1997 – 12/1997)

KSMO Channel 62, Kansas City, MO

Duties: Produced and edited all co-sponsored marketing commercials and Crew 62 event promotions. Created national award-winning promotion of Taco Bell "Monster Eyes."

Director of News (02/1996 – 08/1997)

KEVN Channel 7, Rapid City, SD

Duties: Directed/technical directed 5:30 and 10 pm newscasts and the weekly Black Hills Forum Show. Produced, video edited, & directed the 1996 and 1997, Children's Miracle Network Telethon. Commercial producer, director, video editor and ENG camera for numerous local accounts.

Web Designer/Web Master/Graphic Design (01/1990 – 02/1996)

Worth and Associates, Las Vegas, NV

Duties: Designed and managed corporate websites, databases and IT. Designed and printed logos, brochures, business cards, newsletters, fliers, banners, and posters with corporate branding.

Television Technician - studio camera, audio operator and assistant producer (08/1994 – 08/1995)

KTNV Channel 13, Las Vegas, NV

Duties: Worked on 5, 6 and 11pm news team. Assistant producer for weekly Contact 13 news segments and In Focus with John Daly.

Computer Graphic Designer/Operator (03/1992 – 07/1994)

KHON Channel 2, Honolulu, HI

Duties: Designed and managed corporate websites, databases, and IT, Designed and printed logos, brochures, business cards, newsletters, fliers, banners, and posters with corporate branding.

Computer Sales / Network Installation Specialist (07/1987 – 07/1989)

Computerland, Kaneohe, HI

Duties: Sales and installation of computers, software, hardware, and network infrastructure.

PUBLICATIONS

Abdulmajeed, K., Joyner, D., **McManus, C.** (08/2020). Challenges of Online Learning in Nigeria. Proceedings of the Seventh ACM Conference on Learning@ Scale, 417-420.

Vaughn, M., Premo, J., Erickson, D., & **McManus, C.** (07/2020). Student Agency in Literacy: Validation of the Student Agency Profile (StAP). Reading Psychology, 1-26.

Lohse, J., **McManus, C.**, & Joyner, D. (10/2019) Surveying the MOOC Data Set Universe. Enhancing Workforce Diversity and Inclusion. LWMOOCS VI 2019. IEEE. Milwaukee, WI.

PRESENTATIONS – INTERNATIONAL

McManus, C., (Panelist) (01/2022) Virtual Panel Discussion - How teacher education is a continuum from initial preparation to professional development. National Institute of Education Singapore in connection with Nevada Teacher Network and Singapore.

Lohse, J., **McManus, C.**, & Joyner, D. (10/2019) Surveying the MOOC Data Set Universe. Enhancing Workforce Diversity and Inclusion. LWMOOCS VI 2019. IEEE. Milwaukee, WI.

Althobaiti, A. & **McManus, C.** (02/2018) Ambivalent Sexism in Saudi Students. International Globalization, Diversity, and Education Conference (Airway Heights, WA)

McManus, C. (02/2016) International Globalization, Diversity, and Education Conference (Airway Heights, WA) “Using Virtual Field Trips to Expand the Diversity of the Classroom for K-12 Educators (Researcher)”

PRESENTATIONS - NATIONAL

McManus, C. (04/2021). Intelligent Agents and Data Driven Instruction. Stride K12 Promising Practices National Virtual Conference.

Vaughn, M., Premo, J., Erickson, D., **McManus, C.** (04/2019). Examining student agency during literacy instruction. The annual meeting of the American Educational Research Association, Toronto, Canada.

Lamb, R., Firestone, J., & **McManus, C.** (03/2016). Principles and applications of Functional Near Infrared Spectroscopy. Paper presented at the National Science Foundation Laboratory Collaborative Network. Gainesville FL & Boston, MA.

McManus, C. (10/2015). Using Virtual Field Trips to Expand the Diversity of the Classroom for K-12 Educators (Practioner). Washington State University Tech-Ed Conference (Pullman, WA)

PRESENTATIONS – REGIONAL

McManus, C. (Panelist) (04/2022) Virtual SEL Panel Discussion on Teacher Leadership. State of Nevada Schools. Teach Plus Nevada. Virtual Conference.

McManus, C. & Bannister, B. (12/2021). SEL in Virtual Education. Teacher Leadership. Powered by Teach to Lead: Nevada Edition 2021. Southern Nevada RPD. Virtual Conference.

McManus, C. (04/2020). Developing and Deploying Engaging Nearpod Lessons. Nevada Virtual Academy Professional Development. Las Vegas, NV.

McManus, C. (02/2020). Intelligent Agents in Desire 2 Learn LMS. Nevada Virtual Academy Professional Development. Las Vegas, NV.

McManus, C. (11/2019). Teaching Mathematics Online – Methods for Middle School Student Engagement. Washington State University Math and Science Education Seminar. Pullman, WA.

McManus, C. (03/2017). Classroom-ready Augmented and Virtual Reality. Building Bridges, Washington State Higher Education Technology Conference, Spokane, WA.

POSTER PRESENTATIONS

McManus, C. (05/2019). Virtual Reality 360-degree Tour of Johnston Geology Science Museum. Masters Capstone Symposium. Emporia State University, Emporia, KS.

McManus, C., Lamb, R., Firestone, J., & Pooler, S. (11/2016). Gender-based student experience in STEM learning in High School Science. Poster presented at the Conference of National Science Teacher Association (NSTA). Portland, OR.

Lamb, R., Firestone, J., **McManus, C.**, & Premo, J. (11/2016). Effectiveness of mathematics and engineering integration in an elementary STEM program. Poster presented at the National Conference of the National Science Teacher Association (NSTA). Portland, OR.

Lamb, R., Firestone, J., **McManus, C.**, & Premo, J. (11/2016). Examination of STEM integration: K, 2nd and 5th-grade students in an urban elementary school. Poster presented at the Conference of National Science Teacher Association (NSTA). Portland, OR.

McManus, C. A. (05/2016). UI Development and Usability Testing of a Digital Memory Notebook. Poster presented at Gerontechnology II Poster Symposium. Washington State University. Pullman, WA. Poster

Lamb, R., Firestone, J., & **McManus, C.** (03/2016). Examination of the Impacts of Dimensionality on the Cognitive Dynamics Associated Educational Video Game Play, Poster Presented at Washington State University Academic Showcase. Pullman, WA.

McManus, C. A., & Main-Smith, J. (12/2015). Ambulatory Circuit Research at St. Luke's Research Institute Gerontechnology I Poster Presentation Washington State University (Pullman, WA).

GRANTS

McManus, C. (2012) McDonalds Education Mini Grant. \$250.

McManus, C., Lamb, R., Firestone, J.B., & Westhoff, G. (2016) Steelcase Active Learning Furniture Grant. Steelcase Education. \$62,000.00 (reviewed).

SERVICE

National

Teacher's Advisory Group Member (02/2017 – Present) PBS Education Advisory Group, Las Vegas, NV

Community

Communications Director (04/2016 – 06/2018) Spokane & Lake City Figure Skating Clubs, Coeur d'Alene, ID

University

Graduate Education Senator (01/2018 – 05/2018) The Associated Students of Washington State University Spokane (ASWSUS), Spokane, WA

District:

Canvas Blended Learning Pilot Testing and Deployment Team (08/2012/06/2014) Clark County School District

iPad Implementation Project Member (08/2011 - 06/2014) Clark County School District

Professional Development Team Member (08/2011 - 06/2014) Clark County School District

School

Middle School eSports Coach. (08/2020 – current) Nevada Virtual Academy, Las Vegas, NV

Chair - Data and Assessment Professional Learning Committee (08/2019 – 05/2022) Nevada Virtual Academy, Las Vegas, NV

Co-Chair- Professional Development Professional Learning Committee (08/2019 – 05/2021) Nevada Virtual Academy, Las Vegas, NV

Member - Data and Assessment Professional Learning Committee (08/2019 – 05/2022) Nevada Virtual Academy, Las Vegas, NV

Member - National Honor Society Advisory Council (02/2017 – 11/2018) Nevada Connections Academy, Las Vegas, NV

Advisor/Graphic Designer - PAC Auction Catalog Production (08/2014 - 04/2016) Summit School, Spokane WA

Member - NCA Issue Aware & Curriculum Development - Various Committees (08/2012 – 06/2014) Nevada Connections Academy, Las Vegas, NV

Member - International Baccalaureate Technology Curriculum Development (02/2010 – 06/2014) Roy Martin Middle School, Las Vegas, NV

Advisor - Media Club (02/2010 -06/2014) Roy Martin Middle School, Las Vegas

Administrator - Google Apps for Education (08/2011 – 06/2014) Roy Martin Middle School, Las Vegas, NV

PROFESSIONAL ORGANIZATIONS

National Council of Teachers of Mathematics (NCTM)
Association of Mathematics Teacher Educators (AMTE)

HONORS AND AWARDS

SEL Change Agent Fellow – Teach Plus (2022)
Khan Academy Ambassador (2020-21 and 2022-23)
Academic Scholarship – Emporia State University Master's Program (2018-2019)
Academic Scholarship – Washington State University Ph.D. Program (2015-2017)
Academic Scholarship – Early Childhood Education Associates Degree (2010)

REFERENCES

Dr. Andre Denson

- Middle School Principal – Nevada Virtual Academy (Las Vegas, NV)
- ADenson@NVVAcademy.org
- (702) 407-1825

Dr. David Joyner

- Associate Director of Student Experience (OMSCS) and Senior Research Associate – Georgia Institute of Technology (Atlanta, GA)
- David.Joyner@gatech.edu
- (404)-429-2380

Dr. Zeni Colorado Reza

- Department Chair and Associate Professor – Emporia State University (Emporia, KS)
- JColorad@emporia.edu
- (620) 341-5829

Dr. Jonah Firestone

- Assistant Professor of Science Education – Washington State University (Tri-Cities, WA)
- Jonah.Firestone@tricity.wsu.edu
- (509) 372-7198

Ms. Diane Edwards

- Adjunct Manager – Nevada Connections Academy - Online (Reno, NV)
- DEdwards@nca.connectionsacademy.org
- (775) 826-4200

Ms. Mary Hafner

- Retired Principal, Roy Martin Middle School (Las Vegas, NV)
- MaryHaf@aol.com
- (702) 241-1061