

# Curriculum Vitae

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Donald Douglas McMahon, III Ph.D.

Washington State University

don.mcmahon@wsu.edu | macddm@gmail.com | @macddm

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## Education

Doctor of Philosophy, Education, Special Education. May 2014  
The University of Tennessee, Knoxville, Tennessee.  
• Graduate Certificate in Evaluation, Statistics and Measurement May 2013  
Masters of Science, Special Education May 2006  
The University of Tennessee, Knoxville, Tennessee.  
Bachelor Degree, College Scholars Honors Program May 1999  
The University of Tennessee, Knoxville, Tennessee.  
• Graduated Cum Laude: Degree in History, English and Film Production  
• Studied abroad at the University of Wales, Swansea

## Dissertation

McMahon, D., (2014). *Augmented Reality on Mobile Devices to Improve the Academic Achievement and Independence of Students with Disabilities*. (PhD dissertation).  
University of Tennessee. [http://trace.tennessee.edu/utk\\_graddiss/2716](http://trace.tennessee.edu/utk_graddiss/2716)

## Goal

My research goal is to use technology to create a more inclusive future for all learners.

## Research Interests

- Applications of Universal Design for Learning to increase achievement for students including with disabilities in the general curriculum
- Advance the use of augmented reality and virtual reality to improve academic and functional skills
- Implement emerging technologies as instructional tools for students with disabilities

## Professional Experience

Assistant Professor of Special Education, Washington State University August 2014- Present

- Teach undergraduate and graduate courses in Special Education, technology, and research
- Research new assistive technology interventions for students with disabilities
- Engage in outreach and service to teach educators, advocates, and individuals with disabilities how to effectively use a variety of technologies to empower people with disabilities
- Advise graduate students on coursework, assignments, research designs, and technology education research areas
- Founder and Co-Director of the Assistive Technology Research & Development Lab
- Guest lecturer on mobile learning, augmented reality, Universal Design for Learning, and assistive technology topics

Educational Consultant, Bureau of Educational Research Spring 2013 – Present

- Conduct full day professional development workshops across the United States
- Match educational resources with curriculum topics
- Lead multiday institutes on mobile learning for teachers as a featured presenter
- Conduct professional development sessions on site off site for educators

Graduate Assistant, The University of Tennessee August 2011-May 2014

- FUTURE Postsecondary Program: Instructor for technology skills, implemented and managed a 1 to 1 iPad initiative, planned and conducted research studies, and served as program staff. Designed Digital Citizenship courses for postsecondary students with disabilities to use technology to increase independent living skills
- Conducted and analyzed research, found funding proposals, assisted in grant writing

Co-Teaching Instructional Coach, Knox County Schools January 2009-May 2011

- Coached General Education and Special Education teachers on inclusive practices
- Worked with administrators to create a school wide inclusive culture
- Assisted administrators and teachers with scheduling classes; facilitated data collection on students
- Conducted district wide trainings on inclusive practices for students with disabilities
- Made classroom observations and gave feedback to teachers, principals, and other administrators
- Collected data on effectiveness of co-taught classrooms for student performance indicators

Relief Worker, Global Volunteer Network, Jacmel, Haiti Summer 2010

- Managed construction activities: built transition shelters, furniture, and classrooms
- Wrote project grant requests to New Zealand Based NGO, developed project budgets, negotiated and bought building materials in local markets
- Volunteered at Handicap International supported school for students with disabilities
- Trained volunteers on implementing Applied Behavioral Analysis principles to increase safety and effectiveness of a vitamin distribution program

Special Education Teacher, Knox County Schools August 2003- January 2009

- Implemented Individual Education Plans for students with disabilities; worked with diverse student populations including students with learning disabilities, other health impairments (ADHD), intellectual disability, autism, emotional/behavioral disorders
- Communicated with families, occupational and physical therapists, speech therapists and other support staff to create collaborative and successful educational programs
- Collected and analyzed data on student performance and adjusted instructional resources as necessary
- Building Level Technology Coordinator; Family Friendly Schools Coordinator; member of Leadership committee; Chair of School Improvement Plan Curriculum Committee

## Publications (\* = Activity while at WSU)

### Peer Reviewed Articles

- \*McMahon, A. K., **McMahon, D.**, & Hirschfelder, K. (Accepted). Effectiveness of mindfulness-based interventions for individuals with autism spectrum disorder: A systematic literature review. *DADD Online Journal*.
- \***McMahon, D.**, Barrio, B. L., McMahon, A. K., Tutt, K., & Firestone, J. (2019). Virtual reality exercise bike intervention for high school students with intellectual/developmental disability. *Journal of Special Education Technology*. Online first on April 11, 2019 <https://doi.org/10.1177/0162643419836416>
- \*Smith, C. C., Cihak, D. F., **McMahon, D.**, & Coleman, M. B. (2019). Examining digital messaging applications for postsecondary students with intellectual disability. *Journal of Special Education Technology*. Online first January 22, 2019. <https://doi.org/10.1177/0162643418822107>
- \*Walker, Z., **McMahon, D.**, & Rosenblatt, K. (2017). Beyond Pokémon: Augmented reality is a universal design for learning tool. *Sage Open*, 7(4) 1-8. <https://doi.org/10.1177/2158244017737815>
- \*Cihak, D.F., Musacchio, M.M., Kim, B., **McMahon, D.**, Wright, R., Gibbons, M.M. Gordon, J., & Bardo, J. (2017). Evaluating self-instruction using YouTube to acquire and generalize vocational skills for college students with intellectual disability. *Division on Autism and Developmental Disabilities Online Journal*, 4(1), 92-109.
- \*Scheef, A. R., Barrio, B. L., Poppen, M. I., **McMahon, D.**, & Miller, D. (2017). Exploring barriers for facilitating work experience opportunities for students with intellectual disabilities enrolled in post-secondary education programs. *Journal of Postsecondary Education and Disability*, 31(3), 209-224.
- \*Howorth, S.K., Cihak, D.F., & **McMahon, D.** (2017). Effects of explicit instruction on fidelity of teacher candidates' creation of trigger-based-video models. *Journal of Evidence-Based Practices for Schools*, 16(2), 132-146.
- \*Smith, C. C., Cihak, D. F., Kim, B., **McMahon, D.**, & Wright, R. (2016). Examining augmented reality to improve navigation skills in postsecondary students with intellectual disability. *Journal of Special Education Technology*, 32(1), 1-9. <https://doi.org/10.1177/0162643416681159>
- \*McMahon, A. K., & **McMahon, D.** (2016). Exercise technology interventions for individuals with intellectual and developmental disabilities: A systematic review. *Division of Autism and Developmental Disabilities Online Journal*, 3(1), 42-53.
- \*Cihak, D. F., Moore, E., Wright, R., **McMahon, D.**, Gibbons, M.M., & Smith, C. (2016). Evaluating augmented reality to complete a chain task for elementary students with autism. *Journal of Special Education Technology*, 31(2), 99-108. <https://doi.org/10.1177/016264341665172>

- \*McMahon, D.,** Cihak, D. F., Wright, R.E., & Bell, S. M. (2016). Augmented reality for teaching science vocabulary to postsecondary education students with intellectual disabilities and autism. *Journal of Research on Technology in Education*, 48(1), 38-56. <https://doi.org/10.1080/15391523.2015.1103149>
- \*McMahon, D.,** Wright, R., Cihak, D.F., Moore, T.C., & Lamb, R. (2016). Podcasts on mobile devices as a read aloud testing accommodation in secondary science assessment. *Journal of Science Education and Technology*, 25(2), 263-273. <https://doi.org/10.1007/s10956-015-9591-3>
- \*McMahon, D.,** Cihak, D. F., & Wright, R.E. (2015). Augmented reality as a navigation tool to employment opportunities for postsecondary education students with intellectual disabilities and autism. *Journal of Research on Technology in Education*, 47(3), 157-172. <https://doi.org/10.180/15391523.2015.1047698>
- \*McMahon, D.,** Smith, C., Cihak, D.F., Wright, R., & Gibbons, M. (2015). Effects of digital navigation aids on adults with intellectual disabilities: Comparison of paper map, google maps, and augmented reality. *Journal of Special Education Technology*, 30(3), 157-165. <https://doi.org/10.1177/0162643415618927>
- \*Cihak, D.F., McMahon, D.,** Smith, C.C., Wright, R., & Gibbons, M.M. (2015). Teaching individuals with intellectual disabilities to email across multiple device platforms. *Research in Developmental Disabilities*, 36(3), 645-656. <https://doi.org/10.1016/j.ridd.2014.10.044>
- \*Cihak, D. F.,** Wright, R., Smith, C., C., **McMahon, D.,** & Kraiss, K. (2015). Incorporating functional digital literacy skills as part of the curriculum for high school students with intellectual disabilities. *Education and Training in Autism and Developmental Disabilities*, 50(2), 155–171.
- \*McMahon, D.,** & Walker, Z. (2014). Universal design for learning features and tools on iPads and iPhones. *Journal of Special Education Technology*, 29(2), 39-49.
- McMahon, D.,** Cihak, D.F, Gibbons, M., Fussell, L., & Mathison, S. (2013). Using a mobile app to teach individuals with intellectual disabilities to identify potential food allergies. *Journal of Special Education Technology*, 28(3), 21-32.
- McMahon, D.,** & Smith, C. S. (2012). Universal design for learning: Implications and applications in UT Knoxville FUTURE Program. *Think College Insight Brief*, Issue No. 14. Boston, MA: University of Massachusetts Boston, Institute for Community Inclusion.
- Cihak, D.F, Kildare, L., Smith, C., **McMahon, D.,** & Quinn-Brown, L. (2012). Using video Social Stories™ to increase task engagement for middle school students with autism spectrum disorders. *Behavior Modification*, 36, 399-425. <http://doi.org/10.1177/0145445512442683>

### **Invited Editorial**

- \***McMahon, D.** (2019). Getting started with virtual reality as assistive technology. *Closing the Gap*. June/July 29-34.

### **Conference Proceedings**

- \***McMahon, D.** (2018). *Augmented reality & virtual reality: Connecting emerging technologies to the UDL framework*. In Gardner, J. E., & 2018 International Summit Proceedings UDL-IRN.

- \*McMahon, A. K., & **McMahon, D.** (2018). *Using a wearable EEG to promote mindfulness in an adolescent with autism spectrum disorder*. In Beck, Dennis; Pena-Rios, Anasol; Ogle, Todd; Allison, Colin; Morgado, Leonel; Pirker, Johanna; Richter, Jonathon; Gutl, Christian (Ed.): Online Proc. from Fourth Immersive Learn. Res. Netw. Conf., pp. 2–3, Technischen Universitat Graz, Missoula, Montana, 2018. <https://doi.org/10.3217/978-3-85125-609-3-24>

### **Under Review Publications**

- \***McMahon, D.**, Walker, Z., & Rosenblatt, K. (Revise and resubmit). Common core state standards and universal design for learning: Increasing accessibility. *Sage Open*. September 14, 2018.
- \***McMahon, D.**, & Walker, Z. (Revise and resubmit). Leveraging emerging technology to design the inclusive future with universal design for learning. *Center for Educational Policy Studies Journal*. Submitted June 30, 2019.
- \*Shahrokni, S. A., Salsbury, T., Bettis, P., Newcomer, S., & **McMahon, D.** (Under review). Second language socialization in Stronghold Kingdoms: A narrative inquiry. *The Modern Language Journal*.

### **Manuscripts and Studies in Progress**

- \***McMahon, D.**, & McMahon, A. K. (in prep). Digital wellness and fitness tools for students with disabilities. *Journal of Special Education Technology*.
- \***McMahon, D.**, Farrell, E., Howorth, S., Fuller, M., & Trump, C. (in prep). Using technology to support and extend applied behavior analysis.
- \***McMahon, D.** (in prep). Technology for artistic expression for students with disabilities: Inclusive Digital Art. *Teaching Exceptional Children*. Due August 15<sup>th</sup>, 2019
- \*Wright, R.E., **McMahon, D.**, & Cihak, D. F. (Revising). Smartwatch executive function supports for students with intellectual disability and autism spectrum disorder.

### **Book Chapters (Peer Reviewed)**

\*McMahon, A. K., & **McMahon, D.** (Under review 2019 anticipated). Flipping physical education, health, and exercise science postsecondary classroom. In W. Z. Editor, T. D. Editor & K. K. N. Editor (Eds.), *Flipped Classrooms with Diverse Learners-International Perspectives* (1-96). Singapore: Springer.

\*Cihak, D.F., Smith, C.C., **McMahon, D.**, & Ramsey, J. (2014). Using video modeling in conducting research with young children. In O.N. Saracho (Ed.), *Handbook of Research Methods in Early Childhood Education II*. Charlotte, NC: Information Age Publishing Inc.

### **Book Chapters (Editorial Reviewed)**

\***McMahon, D.** (2015). Augmented reality learning games. In R. Lamb & D. McMahon (Eds.), *Educational and Learning Games: New Research* (1-17). New York: Nova Publishing Inc.

\*Rosenblatt, K., Walker, Z., & **McMahon, D.** (2015). Understanding the impact and importance of educational games for students with disabilities. In R. Lamb & D. McMahon (Eds.), *Educational and Learning Games: New Research* (55-79). New York: Nova Publishing Inc.

### **Books and Handbooks**

\*Walker, Z., Rosenblatt, K., & **McMahon, D.** (2015). *Teaching the last backpack generation: A mobile technology handbook for secondary educators*. California: Corwin Publishers.

### **Invited Publications**

\***McMahon, D.**, Cihak, D.F., Wright, R.E., & Bell, S. M. (2017). Using augmented reality for academic instruction with postsecondary education students with intellectual disability and autism. *Think College Fast Facts. Issue No. 16*. Boston, MA: University of Massachusetts Boston, Institute for Community Inclusion.

### **Other Publications**

**McMahon, D.** (2013, 2014). Making best use of the iPad, phones, mobile devices, and other cutting-edge technology tools to strengthen classroom content learning (Grades 6-12). (Handbook) 112 pages. *Institute for Education Development, Bureau of Educational Research*. Medina, WA.

**McMahon, D.** (2013, 2014). Making best use of the iPad® and other cutting-edge technology tools to strengthen learning of students with special needs (Grades 6-12). (Handbook) 128 pages. *Bureau of Educational Research*. Medina, WA.

### **Presentations**

#### **International /National Presentations**

**McMahon, D.**, Cihak, D.F., & McMahon, A. (2019, January). *Invited preconference training on using current and emerging technologies to support students with disabilities*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Maui, HI.

- Howorth, S., **McMahon, D.**, Farrell, E., Fuller, M., & Trump, C. (2019, January). Featured presentation: *Using technology to support and extend ABA*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Maui, HI.
- McMahon, A., & **McMahon, D.** (2019, January). *Effectiveness of mindfulness-based interventions for individuals with autism spectrum disorder: A systematic literature review*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Maui, HI.
- McMahon, D.** (2018, March). *Connecting augmented reality and virtual reality to the universal design for learning framework*. UDL-IRN Conference. Orlando, FL.
- McMahon, D.** (2018, March). *Designing the inclusive future*. UDL-IRN Conference. Orlando, FL.
- McMahon, D.**, Wright, R., Cihak, D.F., & McMahon, A. (2018, January). *Preconference training on next generation AT: Augmented reality research and virtual reality interventions*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Clearwater, FL.
- McMahon, D.** (2017, March). *Augmented reality and universal design for learning*. UDL-IRN Conference. Orlando, FL.
- McMahon, D.**, Wright, R., & Cihak, D.F., & McMahon, A. (2017, January). *Preconference training on next generation AT: Augmented reality research and virtual reality interventions*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Clearwater, FL.
- McMahon, D.**, Wright, R., & Cihak, D.F., & McMahon, A. (2017, January). *Inclusive augmented reality and virtual reality*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Clearwater, FL.
- McMahon, A., **McMahon, D.**, & Kraiss, K. (2017, January). *Mindfulness among individuals with intellectual and developmental disabilities in a post-secondary education program*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Clearwater, FL.
- Wright, R., & **McMahon, D.** (2016, April). *Smartwatches and context aware applications to improve autonomy of students in PSE*. National Council of Exceptional Children Conference. St. Louis, MO.
- Smith, C., **McMahon, D.**, Cihak, D., & Wright, R. (2016, April). *QR codes: Mobile technology to improve independent living*. National Council of Exceptional Children Conference. St. Louis, MO.
- Cihak, D., **McMahon, D.**, Bouck, E., & Ayres, K. (2016, April). *DADD Showcase: Next generation assistive technologies*. National Council of Exceptional Children Conference. St. Louis, MO.
- Scheef, A., & **McMahon, D.** (2016, April). *The power of the cloud: Using Google docs for transition assessments*. National Council of Exceptional Children Conference. St. Louis, MO.
- McMahon, D.**, Wright, R., & Cihak, D.F. (2016, January). *Next generation AT: Augmented reality research and interventions*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Honolulu, HI.
- Wright, R., **McMahon, D.**, & Cihak, D.F. (2016, January). *iDirect my supports. Context aware wearable AT*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Honolulu, HI.

- McMahon, A., & **McMahon, D.** (2016, January). *Physical activity exercise interventions for individuals with intellectual and developmental disabilities*. Division of Autism and Developmental Disabilities, Council of Exceptional Children Conference. Honolulu, HI.
- McMahon, D.**, & Walker, Z. (2015, April). *Future of student instruction. Augmented reality in education*. National Council of Exceptional Children Conference. Lecture. San Diego, CA.
- McMahon, D.**, & Wright, R. (2014, April). *Teaching functional digital literacy skills to students with intellectual disabilities*. National Council of Exceptional Children Conference. Philadelphia, PA.
- McMahon, D.**, & Walker, Z. (2013, July). *The future of student instruction: Mixed reality and augmented reality*. International Association of Special Education, Biannual Conference. Vancouver, Canada.
- Krcek, T., & **McMahon, D.** (2013, June). *Using augmented and assistive technology to teach sign language to students with autism that are non-verbal*. American Association of Intellectual and Developmental Disabilities. National Conference, Pittsburgh, PA
- Walker, Z. & **McMahon, D.** (2013, April). *The future of student instruction: Mixed reality and augmented reality*. National Council of Exceptional Children Conference. San Antonio, TX.
- Cihak, D. F., **McMahon, D.**, Smith, C., Wright, R. (2013, April). *Teaching functional digital literacy skills to students with intellectual disabilities*. National Council of Exceptional Children Conference. San Antonio, TX.
- McMahon, D.** & Walker, Z. (2013, January). *Using augmented reality apps in education*. Florida Educators Technology Conference. Orlando, FL.
- Walker, Z., & **McMahon, D.** (2013, January). *The future of student instruction: Mixed reality and innovation*. Florida Educators Technology Conference. Orlando, FL.
- McMahon, D.**, & Krcek, T. E. (2012, September). *iPad apps for empowerment and independence*. NADD (The National Association for the Dually Diagnosed) MI/DD Conference. Annual Meeting, Columbus, OH.
- McMahon, D.** (2012, April). *Podcast based read aloud testing accommodations*. Poster session. National Council of Exceptional Children Conference. Denver, CO.
- McMahon, D.** (2012, January). *Podcast based read aloud testing accommodations*. One hour session. Florida Educators Technology Conference. Orlando, FL.
- McMahon, D.** (2012, January). *Inclusive digital citizenship*. One hour session. Florida Educators Technology Conference. Orlando, FL.
- McMahon, D.** (2011, November). *Podcast based read aloud testing accommodations*. One hour session. Council of Administrators Special Education National Convention. Williamsburg, VA.
- Invited Presentations**
- McMahon, D.** (2017). *Augmented reality in postsecondary education research*. Featured Speaker, Think College. Fall 2017 Research Summit. December 4<sup>th</sup>, 2017
- McMahon, D.** (2015, March). *Augmented reality and virtual reality in education*. Technology Test Kitchen hosted by the WSU Global Campus. Washington State University, Pullman, WA. March 30, 2015
- McMahon, D.** (2014, September). *Augmented reality in education*. TECH-ED Conference. Washington State University, Pullman, WA. September 25, 2014



- McMahon, D.** (2014, August). *90 apps and tips for students with autism in general education settings*. 3<sup>rd</sup> Annual Autism Institute Washington State, Tri-Cities. August 15, 2014
- McMahon, D., & Wright R.** (2013, June). *Using accessible instructional materials and mobile devices to improve achievement*. Guest speaker, Advanced Assistive Technology. The University of Tennessee. Knoxville, TN.
- McMahon, D.** (2013, June). *Report on TN accessible instructional materials*. Invited speaker, East Tennessee Special Education Directors Regional Meeting. Knoxville, TN. May 16, 2013
- McMahon, D.** (2012, June). *Using accessible instructional materials*. Guest speaker, Advanced Assistive Technology. The University of Tennessee. Knoxville, TN.
- McMahon, D.** (2012, June). *Universal design for learning and mobile learning*. Guest speaker, Teaching students with Mild to Moderate disabilities. The University of Tennessee. Knoxville, TN.
- McMahon, D.** (2012, April). *Teaching social studies using Google Earth*. Guest speaker. Clinton City Schools, Clinton, TN.
- Krcek, T. & **McMahon, D.** (2012, April). *Apps for autism*. Invited Presentation at The Ohio State Innovate Conference. Columbus, OH.
- Krcek, T. & **McMahon, D.** (2012, April). *Using iPads to deliver evidence based practices and conduct research*. Invited Presentation at The Ohio State University to the College of Social Work Faculty. April 14, 2012. Columbus, OH.

#### **State/Regional Presentations**

- Wright, R. & **McMahon, D.** (2013, October). *Accessible instructional materials: Activities of TN AIM Center*. Tennessee Council of Exceptional Children Conference. Annual Meeting, Nashville, TN.
- Krcek, T. & **McMahon, D.** (2013, May). *Using augmented and assistive technology to teach sign language to non-verbal students with autism*. Tennessee Disability MegaConference. State conference, Nashville, TN.
- McMahon, D.** & Wright, R. (2012, March). *Accessible instructional materials: Introducing the TN AIM Center*. Tennessee Special Education and Response to Intervention Summit. Annual Meeting, Nashville, TN.
- McMahon, D.** (2011, December). *Podcast based read aloud testing accommodations*. One hour session. Tennessee Association for Assistive Technology. Nashville, TN.
- McMahon, D.** (2011, December). *Google Earth: Connecting universal design for learning and STEM education*. Tennessee Association for Assistive Technology. Nashville, TN.
- McMahon, D.** (2011, December). *Customizing the Google chrome browser into a free and easy to use AT tool*. Tennessee Association for Assistive Technology. Nashville, TN.
- Coleman, M.B. & **McMahon, D.** (2011, December). *Assistive technology for increasing written expression*. One hour session. Tennessee Association for Assistive Technology Nashville, TN.
- McMahon, D.** (2011, October). *Podcast based read aloud testing accommodations*. Lecture Presented at the Tennessee CEC Annual Conference, Chattanooga, TN.
- Stowell, T. & **McMahon, D.** (2010, December). *Using electronic resources for the middle school reading and language arts classroom*. Lecture and Professional Development at the Smokey Mountain Reading Council, Knoxville, TN.

**McMahon, D.**, Loy, K., & Lewis, R. (2010, Dec). *Podcast based read aloud testing accommodations*. Lecture Presented at the Tennessee Title I Annual Conference, Gatlinburg, TN.

### **Webinars Invited**

**McMahon, D.** (2016, Sept). Conversation with Dr. Don McMahon and Eustacia Cutler: Augmented Reality Arrives. [Webinar] In Temple Grandin and Eustacia Cutler Autism Fund series. <https://www.youtube.com/watch?v=zEYcBi7CgVs&t=1851s>

**McMahon, D.** (2016, October). Conversation with Dr. Don McMahon and Eustacia Cutler: Augmented Reality a great teaching tool. [Webinar] In Temple Grandin and Eustacia Cutler Autism Fund series. <https://www.youtube.com/watch?v=g4Bqa0fsCU8&t=1895s>

### **Press and Publicity**

- Interview with Tim Reha's CNDY Factory Media at Immersive Summit (October 11, 2016)
- Interview with KXLY Television
- Interview with Washington State Magazine
- Interview with Moscow Pullman Daily news
- Interview with WSU College of Education Ed Eclipse Podcast
- Interview with Patrick O'Shea, Versalist Podcast of the Immersive Learning Research Group
- Interview with Motherboard Magazine Vice Media. 6/11/2017  
[https://motherboard.vice.com/en\\_us/article/payq7g/developers-are-already-impressed-with-apples-augmented-reality-software](https://motherboard.vice.com/en_us/article/payq7g/developers-are-already-impressed-with-apples-augmented-reality-software)

### **Grants (\* = Activity while at WSU)**

#### **Funded Grants**

**\*McMahon, D.** (2015). WSU Assistive Technology Research and Development Lab. Berry Family Fellowship. Awarded November 27, 2015. Funded – \$12,500

**\*McMahon, D.** (2014, Sept.) Wearable Interactive Learning Devices Exploratory Research (WILDER) Project. Department of Teaching and Learning, WSU, 2014-2015. Funded - \$1000

**\*Lamb, R., Erdman, P., & McMahon, D.** (2014, Sept.) Educational Neuropsychology Laboratory. Department of Teaching and Learning, WSU, 2014-2015. Funded -\$3000.00.

**McMahon, D., & d'Angelantonio, G.** (2010, July) Metal Roof and Repairs for Ecole La Rousse Orphan, Jacmel, Haiti. Global Volunteer Network Foundation. New Zealand.–Funded (Approximately \$800) and Project Completed.

**McMahon, D., & Soone, J.** (2010, July) Community Pavilion Project, Jacmel, Haiti. Global Volunteer Network Foundation. New Zealand. Funded (Approximately \$500) and Project Completed.

**McMahon, D., & Soone, J.** (2010, July) Workshop Construction Addition to Community Center Project Proposal, Jacmel, Haiti. Global Volunteer Network Foundation. New Zealand. (Approximately \$500) Funded and Project Completed.

#### **Under Review Grants**

- \***McMahon, D.** & Firestone, J. (2019, April). Designing the Inclusive Future of Education with Immersive Learning. James Smith McDonnell Foundation. (\$2,200,000 over 5 years). Submitted May, 2019.
- \***McMahon, D.** & Firestone, J. (2019, April). Designing Learning Experiences with Virtual Reality and 360 Video Modeling for students with Autism. Amazon Catalyst Grant. (\$10,000). Submitted May, 2019.

### Unfunded Grants

- \***McMahon, D.**, Blackorby, J., & Firestone, J. (2017, May). AR MATH Fractions: Stepping-up Cutting Edge Technology in Core Content for Students with Disabilities. Office of Special Education Rehabilitation Services. CFDA: 84.327. \$2,480,138
- \*Barrio, B.L., Scheef, A., & **McMahon, D.** (2017, March). WSU ROAR: Postsecondary Education Program for the Improvement of Community Living and Participation (Research). National Institute on Disability, Independent Living, and Rehabilitation Research: DRRP. Award \$2,124, 619. Role: PI
- \***McMahon, D.**, Barrio, B., Miller, D., & Scheef, A. (2015, August). Washington State University ROAR Program- Model Transition Program. Office of Postsecondary Education. CFDA: 84.407. \$1,200,559 / 5 years. Unfunded
- \***McMahon, D.**, Crandall, A., Barrio, B., Ghasemzadeh, H., Poppen, M., & Lamb, R. (2015, August). Beyond Four Walls: Context Aware Assistive Technology Interventions to Increase Transition Skills for Individuals with Intellectual Disabilities. Institute for Education Sciences: NCSER submitted. CFDA: 84.324. Award \$1,493,492/ 3 years. - Unfunded
- \* Barrio, B.L. & **McMahon, D.** (2015, December). U.S. Department of Education, Office of Special Education. Assistive Technology –Leadership Enhancing Access, Design, Education, and Research. Award \$1,215,756/ 5 years. - Unfunded
- \***McMahon, D.**, Barrio, B., Cihak, D., Poppen, M., & Lamb, R. (2015, August). Which Read Aloud Project: An Efficacy Comparison of Teacher Read Aloud, Podcast Based Read Aloud, and Electronic Text to Speech in STEM Assessments for Students with Disabilities. Institute for Education Sciences: NCSER submitted. Award \$3,266,908/ 4 years. CFDA: 84.324. - Unfunded.
- \***McMahon, D.**, Crandall, A., Barrio, B., Ghasemzadeh, H., Poppen, M., & Lamb, R. (2015, April). Beyond Four Walls: Context Aware Assistive Technology Interventions to Increase Independent Living Skills for Individuals with Intellectual Disabilities. The National Institute on Disability, Independent Living, And Rehabilitation Research, Disability and Rehabilitation Research Projects (DRRP) submitted. Award \$2,372,558 / 5 years. - Unfunded
- \***McMahon, D.**, Barrio, B., Poppen, M., Miller, D., & Crandall, A. (2014, December). Assistive Technology Leadership Enhancing Access, Design, Education and Research (AT-LEADER). Office of Special Education and Rehabilitation Services, Department of Education Proposal. Award \$1,215,775.00/ 5 years – Unfunded
- \***McMahon, D.**, & Crandall, A. (2014, November). GARDE: Beyond Four Walls: Context Aware Assistive Technology Interventions to Increase Independent Living Skills for Individuals with Intellectual Disabilities. National Science Foundation, General And Age Related Disabilities Engineering Program (GARDE). National Science Foundation submitted Proposal: 1511958. Award \$349,968/ 3 years – Unfunded.

- McMahon, D.** (2012, March). Using Augmented Reality for the Empowerment and Independence of students with disabilities. U.S. Department of Education, National Institute on Disability and Rehabilitation Research (NIDRR), Mary E. Switzer Fellowship CFDA 84.133F. Award \$65,000 Submitted March 18, 2013. – Unfunded
- McMahon, D.** (2012, March). Yates Dissertation Fellowship. Graduate School, The University of Tennessee. Award 15,000. Submitted March 5, 2013 – Unfunded.
- Cihak, D.F., **McMahon, D.**, Coleman, M.B., Hodge, L., & Aydeniz, M. (2012). iRead-Aloud: An Interactive Universally Designed Enhanced Podcast Read-Aloud Math and Science Testing Accommodation for Students with Disabilities. U.S. Department of Education, Institute of Education Sciences (IES), CFDA #84.324A2012-2. Award \$1,474,389. Submitted September 2012. – Unfunded
- McMahon, D.** (2012, March) Using Augmented Reality for the Empowerment and Independence of Students with Disabilities. U.S. Department of Education, National Institute on Disability and Rehabilitation Research (NIDRR), Mary E. Switzer Fellowship CFDA 84.133F Award 65,000 Submitted March 4, 2012 – Unfunded.
- Cihak, D.F., **McMahon, D.**, Coleman, M.B., Hodge, L., & Aydeniz, M. (2011). iRead-Aloud: An Interactive Universally Designed Enhanced Podcast Read-Aloud Math and Science Testing Accommodation for Students with Disabilities. U.S. Department of Education, Institute of Education Sciences (IES), CFDA #84.324A2012-2. Award \$1,474,389. Submitted September 18, 2011. – Unfunded.

### **Other Project Funding**

- Assistive Technology Research and Development Lab. As the director of the ATRD Lab I engage in outreach sessions with community members to provide funding to support lab activities. In 2016 these outreach activities resulted in \$8,000 in donor funding.
- WSU ROAR Postsecondary Education Program for students with intellectual/developmental disabilities. As one of the original founders and co-pi of this program I engaged in outreach sessions with community members to provide funding to start this program. In 2016 these outreach activities resulted in \$42,000 in donor funding. By 2018 we secured enough funding for a successful soft launch of the program in Fall of 2018.

## **Teaching Courses Taught**

### **Washington State University**

- Tch Lrn 470: Special Education, Transition, and Classroom Management for Secondary General Education Teachers
- SPEC-ED 595: Universal Design for Learning and Assistive Technology
- SPEC-ED 596: Doctoral Student Research Seminar
- SPEC-ED 594: Teaching Students with Emotional and Behavioral Disorders
- SPEC-ED 421/521: Collaboration skills for special educators
- SPEC-ED 403/503: Secondary Special Education
- SPEC-ED 800: Independent Study/Dissertation Hours
- SPEC-ED 600: Independent Study on Single Subject Research
- SPEC-ED 520: Teaching in Inclusive Classes
- SPEC-ED 403: Secondary Education & Students with Disabilities

- SPEC-ED 301: Introduction to Special Education
- SPEC-ED 522: Special Topic Assistive Technology
- SPEC-ED 800: Dissertation Hours
- MIT 506: Instructional Technology
- ED Psych 571: Theoretical Foundations of Program Evaluation

#### **University of Tennessee**

- TPTE 495/595: Using iPads for Diverse Learners: Special Topics. Fall 2012, Fall 2013
- SPEC-ED 402: Introduction to Special Education. Spring 2011 Graduate Assistant
- TPTE 486: Introduction to Instructional Technology. Fall 2010 Graduate Assistant
- TPTE 630: Special Education Internship Mentoring. Spring 2011, Spring 2012.  
Supervised activities of Pre-service Teacher Candidates; Provide feedback, research/data collection training, training on instructional technology, and behavior intervention strategies

### **Students Mentored**

#### **Graduated Masters and Ph.D. Students**

Chair, Graduated MA Students

Vasquez (Matrone) Angelina: Special Education, Ed.M.

Chair, Graduated MIT Students

Eddy, Anthony: Teaching and Learning, MIT

Van Horn, Kimberly: Teaching and Learning, MIT

Shirer, Dugan: Teaching and Learning, MIT

Committee Member, Graduated Ph.D. Students

Sheef, Andrew: Special Education, Ph.D.

Alhasiany, Fawwz: Special Education, Ph.D.

Alsawaier, Raed: Language Literacy and Technology, Ph.D.

Committee Member, Graduated MA and EdM. Students

Alkhwaiter, Amany: Special Education, M.A.

Breidenbach, Sierra: Special Education, Ed.M.

Hughes, Shannon: Special Education, M.A.

McSwain, Christina: Special Education, Ed.M.

Sheef, Andrew: Special Education, Ed.M.

Committee Member, Graduated MIT Students

Bosse, Michelle: Secondary, MIT

Clark, Jillian: Secondary, MIT

#### **Current Graduate Students**

Chair

Tutch, Jeffrey: Teaching and Learning, Ed.M.

McKinnon, Brianna: Teaching and Learning, M.A

Hirschfelder, Kathryn: Special Education, Ph.D.

Committee Member

Alsuwayl, Ayman: Special Education, Ph.D.

Thomas, Jessica: Special Education, Ph.D.

McManus, Christine: Math and Science Education, Ph.D.

Albagshi, Amira: Teaching and Learning, Ph.D.

Anglin, Mykala: Special Education, Ed.M.  
 Aldawsari, Faisal: Special Education, Ph.D.  
 Briones, Andrea: Teaching and Learning, MIT  
 Watt, Amy: Special Education, Ed.M.  
 Moore, Stephani: Special Education, Ed.M.  
 Wong, Rachel: Educational Psychology, Ph.D.  
 Bayly, Dan: Individual Interdisciplinary, Ph.D.

#### Advisor

Tafejian, Thomas: Special Education, Ed.M.  
 Alghamdi, Abdulaziz: Special Education, Ph.D.  
 Anderson, Jessica: Special Education, Ed.M.  
 Aldousari, Ahmed: Special Education, Ph.D.

### Service

#### National Service

- 2019 Innovation in Special Education Technology (ISET), member of professional development committee
- 2018 Technology and Media Division of CEC, [now renamed as the Innovation in Special Education Technology (ISET)], member of executive board
- 2018 Technology and Media Division of CEC, Technology Showcase Coordinator
- 2018 Technology and Media Division of CEC, member of Mission Statement & Vision Steering Committee
- 2017 CEC Leadership Summit 2017 July 9-11-17
- 2017 Technology and Media Division of CEC, member of executive board, elected as member at large in charge of publicity committee – to improve website and outreach efforts
- 2017 Technology and Media Division of CEC, Technology Showcase Coordinator
- 2012 Tennessee Accessible Instructional Materials Center, Project Coordinator, proposed, developed, and managed project to support accessible instructional materials use in Tennessee until I moved to Washington in the summer of 2014.

#### Reviewing Service

- 2019 Ad hoc reviewer *Journal of Special Education Technology*
- 2019 Ad hoc reviewer *Frontiers*
- 2019 Ad hoc reviewer *Focus on Autism and Developmental Disabilities*
- 2018 Ad hoc reviewer *Education and Training in Autism and Developmental Disabilities*
- 2018 Ad hoc reviewer *Journal of Special Education Technology*
- 2017 Ad hoc reviewer *Behavior intervention in Practice* 6/12/2017
- 2017 Ad hoc reviewer *Research in Developmental disability* 7/12/17
- 2017 *Journal of Research on Technology in Education*, Member of Editorial Board, reviewed 1 manuscript
- 2016 *Journal of Research on Technology in Education*, Member of Editorial Board, reviewed 2 manuscripts
- 2016 CEC National Conference DADD, Conference proposal reviewer
- 2016 *DADD Online Journal*, manuscript reviewer, reviewed 4 manuscripts
- 2016 CEC National Conference Technology and Media Division, Conference proposal reviewer
- 2016 *Journal of Special Education Technology*, manuscript reviewer, reviewed 2 manuscripts

- 2015 Council for Exceptional Children National Conference, DADD proposal reviewer
- 2015 Division of Autism and Developmental Disabilities Conference, proposal Reviewer
- 2014 Journal of Evidence-Based Practices for Schools, manuscript reviewer, reviewed 1 manuscript
- 2014 CEC National Conference Technology and Media Division, Conference proposal reviewer

### **University Service**

- 2019 Instructor for Cougs Rise Summer 2019. Designed an instructional program called Hacking Learning, to help incoming first year students to use technology to support their success
- 2018 Walking Spaces Hololens Project College of Engineering, Project Sponsor, advise and support engineering students on working on a Microsoft Hololens project
- 2017 Invited Presentation WSU Common Ready program for “Ready Player One” October 17, 2017. “Augmented and Virtual reality as Immersive Learning Tools: Building the Inclusive Future”
- 2017 Walking Spaces Hololens Project College of Engineering, Project Sponsor, advise and support engineering students on working on a Microsoft Hololens project
- 2016 NASA COUG SAT project, Education Merit Review Committee Chair, organized the educational merit review for the WSU Engineering project to put satellite into space
- 2016 Open Educational Resources Committee, member, provide advice and support on expanding use of open educational textbooks and materials at WSU

### **College of Education Service**

- 2016 Education Eclipse Podcast, interviewee, informational podcast about my research and teaching work in the College of Education
- 2016 College of Education Board of Directors Meeting Pullman, WA, presenter, informational session WSU ROAR program and Assistive Technology Research and Development Lab
- 2015 Research Brown Bag, presenter, session on augmented reality in education

### **Department Service**

- 2018 WSU Special Education Program Graduate Admissions Committee, member
- 2018 WSU Masters in Teaching program, member
- 2017 WSU Special Education Program Graduate Admissions Committee, member
- 2017 WSU Masters in Teaching program, member
- 2016 WSU Special Education Program Recruiting and Social Media, coordinator, social media communication and recruiting efforts
- 2016 WSU Special Education Program Graduate Admissions Committee, member
- 2015 SPED Program Website Redesign, lead website redesign efforts
- 2015 WSU Special Education Program Graduate Admissions Committee, member
- 2014 Special Education Program Committee, Washington State University, member
- 2014 Secondary Education Program Committee, Washington State University, member

### **Guest Lectures**

- TL 301 Regular guest lecturer on Universal Design for Learning Fall 2015, 2016, 2017

- TL 445 Regular guest lecturer on Augmented reality Fall, Spring 2015, 2016, 2017 (3 sessions per semester)
- TL 466 Regular guest lecturer on Augmented reality Fall, Spring 2015, 2016, 2017 (1 session per semester)
- CS Gerontechnology Class Guest Lecturer Augmented reality applications for individuals with disabilities. Fall 2016, Fall 2017

### **Outreach Service**

- 2018 Invited Speaker Minnesota Autism Community of Practice session on using technology to support students with disabilities
- 2018 Invited Speaker Minnesota Autism Community of Practice session postsecondary education for students with autism
- 2017 College of Education STEM Research Summit September 27, 2017
- 2017 Cougs in the Desert, College of Education Donor Meeting, Palm Desert, CA.
- 2016 Donor meeting WSU College of Education Yakima, WA, presenter, informational session WSU ROAR program and Assistive Technology Research and Development Lab
- 2016 Teacher Tech Workshop, presenter, provided professional development for current teachers in a Saturday workshop October 22<sup>nd</sup> and 29<sup>th</sup> ...
- 2016 Whitman County Transition Fair Planning meeting, presenter, informational session WSU ROAR program
- 2016 Assistive Technology Research and Development Lab, presenter, created instructional videos on AT topics
- 2016 Technology and Media Division of CEC, member of publicity committee, created training videos for educators and parents to support students with disabilities
- 2016 Autism All Grown Up Conference, Spokane, WA, conference booth worker, organized and information booth for the proposed WSU ROAR postsecondary education program
- 2016 Donor meeting WSU College of Education Bellevue, WA, presenter, informational session WSU ROAR program and Assistive Technology Research and Development Lab
- 2015 Pullman School District, AT evaluator, provided some pro bono assistive technology consulting to the Pullman School District. I also provided an extremely discounted complete AT evaluation for a student as requested by the school district

### **Honors, Certifications, Memberships**

#### **Awards Honors**

- 2019 February Innovation in Special Education Technology, Service award for work as board member
- 2017 April Technology and Media Division of CEC, Journal of Special Education Technology Research article of the year
- 2010 July Harvard Graduate School of Education's Institute on Universal Design for Learning. Cambridge MA

#### **Certifications**

- 2012 Present Institutional Review Board (IRB) Training  
Social & Behavioral Research - Basic/Refresher, Basic Course,  
Collaborative Institutional Training Initiative
- 2010 Cognitive Coach, Center for Adaptive schools. Spring



	5 Day Certification Program to support Professional Learning Communities
2010	Adaptive Schools Coach. Center for Adaptive Schools.
2007	5 Day Certification Program to foster systemic change in schools Family Friendly Schools. 3 Day Training Program. Strategies for increasing family involvement in Schools
2003-2009	Therapeutic Crisis Intervention (TCI) 5 Day Certification Program with 1 day annual recertification developed by Cornell University. 2003-2009 Verbal, Non-physical, and physical intervention techniques for crisis intervention

**Professional License**

Tennessee Teaching License Number                      TN: 000182131  
 Highly Qualified: All Subjects K-6; Special Education Modified K-12  
 Reading K-6, 7-8, 9-12; Language Arts K-6, 7-8, 9-12