

# Matthew T. Marino

# Curriculum Vitae

Professor of Exceptional Education  
University of Central Florida  
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[Faculty Website](#)

## Vitae at a glance

- Ph.D. in Special Education, 2006
- \$8.5 Million in External Funding from NSF, IES, OSERS, U.S. Dept. of Education
- 56 Publications
- 22 Years of Teaching Experience
- 85 Invited, International, National, & Regional Presentations
- “Outstanding” faculty evaluations in Teaching, Research, & Service every year since 2006
- Orchid ID <https://orcid.org/0000-0003-0884-4462>
- [Google Scholar Citations](#)

## Education

**Ph.D. in Special Education**, 2006, University of Connecticut: Storrs, CT  
**Master of Arts in Education**, 1998, Johnson State College: Johnson, VT  
**Bachelor of Science**, 1994, University of Connecticut: Storrs, CT

## Employment

<b>2021 – Present</b>	<b>Interim Director</b> , <a href="#">Toni Jennings Exceptional Education Institute</a>
<b>2012 – Present</b>	<b>Professor of Exceptional Student Education</b> <a href="#">Toni Jennings Exceptional Education Institute</a> (Affiliate faculty) <a href="#">Lockheed Martin Academy</a> (Affiliate faculty) <a href="#">Interactive Experience Research Cluster of Excellence</a> (Affiliate Faculty) <a href="#">iSTEM Fellow</a> (Affiliate faculty) <a href="#">Learning Sciences Faculty Cluster</a> (Affiliate faculty) University of Central Florida: Orlando, FL
<b>2006 – 2012</b>	<b>Assistant / Associate Professor of Special Education</b> Washington State University: Pullman, WA
<b>2003 – 2005</b>	<b>Professional Development Center Coordinator</b> University of Connecticut: Storrs, CT
<b>2003 – 2004</b>	<b>Universal Design Research Assistant</b> University of Connecticut: Storrs, CT
<b>2002 – 2003</b>	<b>Learning Specialist</b> University Program for College Students with Disabilities, University of Connecticut: Storrs, CT
<b>1998 - 2002</b>	<b>Middle Level Teacher &amp; Technology Coordinator</b> Montgomery Elementary & Middle School: Montgomery, VT
<b>1996 - 1997</b>	<b>Exceptional Education Teacher</b> The Discovery Program: Newport, VT

## Professional Honors & Awards

- 2018 Promotion to Full Professor
- 2017 Inspiring Leaders in STEM Award, presented by [Insight into Diversity](#).
- 2017 Research Incentive Award, presented by The University of Central Florida.
- 2017 Video Games developed from IES and NSF funded projects featured as exemplar science learning games by the U.S. Department of Education in the publication "[Reimagining the Role of Technology in Education](#)" (p. 22).
- 2016 Video Games developed from IES and NSF funded projects featured as exemplar science learning games in the U.S. Department of Education publication "[Future Ready Learning](#)" (p. 20).
- 2015 iSTEM Fellow, University of Central Florida.
- 2012 Promotion to Associate Professor with Tenure.
- 2012 Most Innovative Technology Product Award Winner with partner Filament Games. SIIA Innovation Incubator Award.
- 2011 National STEM Video Game Challenge Grand Prize Winner with partner Filament Games. \$50K award presented by Aneesh Chopra, United States Chief Technology Officer.
- 2011 Nominated for the Council for Exceptional Children Division for Research Early Career Publication Award.
- 2011 Invited Co-Facilitator, Technology and Media Division showcase presentation on STEM education, Council for Exceptional Children 2011 Annual Conference, Washington D.C.
- 2010 [Featured Research Scientist](#) by The Center on Technology and Disability. A project funded by the U.S. Department of Education, Office of Special Education Programs (OSEP).
- 2010 Co-Guest Editor, Journal of Special Education Technology, Topical Issue on STEM Education for Individuals with Disabilities.
- 2010 Empirical articles featured on the National Center on Universal Design for Learning Website, a project funded by the U.S. Department of Education.
- 2010 Excellence in Collaboration and Networking Award, Washington State University.
- 2005 University of Connecticut Doctoral Fellowship Award
- 2004 Pi Lambda Theta International Honor Society in Education
- 2002 Nominations
  - ♦ State of Vermont: **Teacher of the Year**
  - ♦ Franklin North-East Supervisory Union: **Teacher of the Year**

## Publications

\* Denotes doctoral scholarship from funded research projects.

### **Refereed Journal Articles**

Hunt, J. Taub, M., **Marino, M. T.**, Duarte, A., Bentley, B., Holman, K., (2022) Enhancing engagement and fraction concept knowledge with a universally designed game-based curriculum. *Learning Disabilities: A Contemporary Journal*, 20(1), 77 – 95.

**Marino, M. T.**, Vasquez, E., Banerjee, M., Parsons, C., \*Saliba, Y. C., \*Gallegos, B., & \*Koch, A. (2020). Coaching as a means to enhance performance and persistence in undergraduate STEM majors with executive function deficits. *Higher Education Theory and Practice*. 20(5). <https://doi.org/10.33423/jhetp.v20i5.3040>

- Vasquez, E., & **Marino, M. T.** (2020). Enhancing executive function while addressing learner variability in inclusive classrooms. *Intervention in School and Clinic*.  
<https://journals.sagepub.com/doi/10.1177/1053451220928978>
- Basham, J. D., Blackorby, J. & **Marino, M. T.** (2020). Opportunity in crisis: The role of Universal Design for Learning in educational redesign. *Learning Disabilities: A Contemporary Journal*, 18(1), 71-91. <https://eric.ed.gov/?id=EJ1264277>
- Love, T. S., Roy, K. R., & **Marino, M. T.** (2020). How can instructors make appropriate accommodations and modifications while maintaining a safer teaching and learning environment for ALL students and themselves? *International Technology & Engineering Educators Association Journal (ITEEA)*, 79(5), 23-27.  
<https://www.iteea.org/Publications/Journals/TET/166256/SSFeb20.aspx>
- Smith, S. J., Rao, K., Lowery, A. K., Gardner, J. E., Moore, E., Coy, K., **Marino, M. T.**, & Wojcik, B. (2019). Recommendations for a national research agenda in UDL: Outcomes from the UDL-IRN preconference on research. *Journal of Disability Policy Studies*, 1-12.  
<https://journals.sagepub.com/doi/10.1177/1044207319826219>
- \*Mrstik, S., Pearl C., \*Hopkins, R., Vasquez, E., & **Marino, M. T.** (2019). Combating special educator attrition mentor teachers' perceptions of job satisfaction, resiliency and retention. *Australian Journal of Special and Inclusive Education*, 43(1), 27 - 40.  
<https://www.cambridge.org/core/journals/australasian-journal-of-special-and-inclusive-education/article/combating-special-educator-attrition-mentor-teachers-perceptions-of-job-satisfaction-resiliency-and-retention/B5EEDE3E9A5F5D2DAC3F0A171677E262>
- \*Xie, J., Basham, J. D., **Marino, M. T.**, & Rice, M. (2018). Reviewing research on mobile learning for students with and without disabilities in k-12 educational settings. *Journal of Special Education Technology*, 33(1), 27-39.  
<https://journals.sagepub.com/doi/abs/10.1177/0162643417732292?journalCode=jsta>
- Vasquez, E., **Marino, M. T.**, \*Donehower, C., & \*Koch, A. (2017). Functional analysis in virtual environments. *Rural Special Education Quarterly*, 36(1), 17-24.  
<https://journals.sagepub.com/doi/10.1177/8756870517703405>
- Pearl, C. E., Vasquez, E., **Marino, M. T.**, Wienke, W., \*Donehower, C., & \*Gourwitz, J. (2017). Establishing content validity of the quality indicators for classrooms serving students with autism spectrum disorder instrument. *Teacher Education and Special Education*, 41(1),  
<http://journals.sagepub.com/doi/abs/10.1177/0888406416687814#articleCitationDownloadContainer>
- Israel, M., \*Wang, S., & **Marino, M. T.** (2016). A multilevel analysis of diverse learners playing life science video games: Interactions between game content, learning disability status, reading proficiency, and gender. *The Journal of Research on Science Teaching*, 53(2), 324-345.  
<https://onlinelibrary.wiley.com/doi/abs/10.1002/tea.21273>

- Vasquez III, E., Nagendran, A., Welch, G. F., **Marino, M. T.**, Hughes, D. E., \*Koch, A., & \*Delisio, L. (2015). Virtual learning environments for students with disabilities: A review and analysis of the empirical literature and two case studies. *Rural Special Education Quarterly*, 34(3), 26-32. <https://journals.sagepub.com/doi/10.1177/875687051503400306>
- Hayes, M. T. & **Marino, M. T.** (2015). Utopia: An imaginative, critical and playful dialogue on the meaning and practice of contemporary education. *E-learning and Digital Media*, 12(3-4), 327-342. <https://journals.sagepub.com/doi/full/10.1177/2042753015571039>
- Marino, M. T.**, \*Becht, K., Vasquez III, E., \*Gallup, J., Basham, J. D., & \*Gallegos, B. (2014). Enhancing secondary science content accessibility with video games. *Teaching Exceptional Children*, 47(1), 27-34. <https://journals.sagepub.com/doi/abs/10.1177/0040059914542762>
- Marino, M. T.**, Gotch, C., Israel, M., Vasquez, E. III, Basham, J. D., & \*Becht, K. M. (2014). UDL in the middle school science classroom: Can video games and alternative text heighten engagement and learning for students with learning disabilities? *Learning Disability Quarterly*, 37, 87-99. <https://journals.sagepub.com/doi/abs/10.1177/0731948713503963?journalCode=ldqa>
- \*Coy, K., **Marino, M. T.**, & \*Serianni, B. (2014). Using Universal Design for Learning in synchronous online instruction. *Journal of Special Education Technology*, 29(1), 63-74. [https://journals.sagepub.com/doi/abs/10.1177/016264341402900105?journalCode=jst\\_a](https://journals.sagepub.com/doi/abs/10.1177/016264341402900105?journalCode=jst_a)
- Marino, M. T.**, Israel, M., \*Beecher, C. C., & Basham, J. D. (2013). Students' and teachers' perceptions of using video games to enhance science instruction. *Journal of Science Education and Technology*, 22, 667-680. <https://link.springer.com/article/10.1007/s10956-012-9421-9>
- Basham, J. D., Smith, S. J., Greer, D. L., & **Marino, M. T.** (2013). The scaled arrival of K-12 online education: Emerging realities and implications for the future of education. *Journal of Education*. 193(2), 51-60. <https://journals.sagepub.com/doi/10.1177/002205741319300206>
- Israel, M., **Marino, M.**, Basham, J., & \*Spivak, W. (2013). 5<sup>th</sup> graders as app designers: How diverse learners conceptualize educational apps. *Journal of Research on Technology in Education*, 46(1), 53-80. <https://www.tandfonline.com/doi/abs/10.1080/15391523.2013.10782613>
- Basham, J. D. & **Marino, M. T.** (2013). Understanding STEM education and supporting students through Universal Design for Learning. *Teaching Exceptional Children*. 45(4), 8-15. <https://journals.sagepub.com/doi/10.1177/004005991304500401>
- Marino, M. T.** & Hayes, M. T. (2012). Promoting inclusive education, civic scientific literacy, and global citizenship with video games. *Cultural Studies of Science Education*, 7(4), 945-954. <https://link.springer.com/article/10.1007/s11422-012-9429-8>

- Marino, M. T.**, Tsuruski, B. K., & Basham, J. D. (2011). Selecting science software for students with learning disabilities and other special needs. *The Science Teacher*, 78(3), 70-72. [https://www.researchgate.net/publication/275354001\\_Selecting\\_software\\_for\\_students\\_with\\_learning\\_and\\_other\\_disabilities](https://www.researchgate.net/publication/275354001_Selecting_software_for_students_with_learning_and_other_disabilities)
- Marino, M. T.**, Basham, J. D., & \*Beecher, C. C. (2011). Using video games as an alternative science assessment for students with disabilities and at-risk learners. *Science Scope*, 34(5), 36-41. <https://www.jstor.org/stable/44290326>
- Marino, M. T.** & \*Beecher, C. C. (2010). Conceptualizing RTI in 21st Century secondary science classrooms: Video games' potential to provide tiered support and progress monitoring for students with learning disabilities. *Learning Disability Quarterly*, 33(4), 299-311. <https://journals.sagepub.com/doi/abs/10.1177/073194871003300407?journalCode=ldqa>
- Marino, M. T.** (2010). Defining a technology research agenda for elementary and secondary students with learning and other high incidence disabilities in inclusive science classrooms. *Journal of Special Education Technology* 25(1), 1-28. <https://journals.sagepub.com/doi/10.1177/016264341002500101>
- Basham, J. D. & **Marino, M. T.** (2010). Introduction to the topical issue: Shaping STEM education for ALL students. *Journal of Special Education Technology*, 25(3), 1-2. <https://journals.sagepub.com/doi/abs/10.1177/016264341002500301?journalCode=jsta>
- Marino, M. T.**, Black, A., Hayes, M., & \*Beecher, C. C. (2010). An analysis of factors that affect struggling readers' comprehension during a technology-enhanced STEM astronomy curriculum. *Journal of Special Education Technology*, 25(3), 35-48. <https://journals.sagepub.com/doi/abs/10.1177/016264341002500305>
- Marino, M. T.**, Coyne, M. D., & Dunn, M. W. (2010). Technology-based curricula: How altered readability levels affect struggling readers' passage comprehension. *Journal of Computing in Mathematics and Science Teaching*, 29(1), 31-49. <https://eric.ed.gov/?id=EJ881592>
- \*Messinger-Willman, J., & **Marino, M. T.** (2010). Universal Design for Learning and assistive technology: Leadership considerations for promoting inclusive education in today's secondary schools. *NASSP Bulletin* 94(1), 5-16. <https://journals.sagepub.com/doi/10.1177/0192636510371977>
- Marino, M. T.** (2009). Understanding how adolescents with reading difficulties utilize technology-based tools. *Exceptionality*, 17(2), 88-102. <https://www.tandfonline.com/doi/abs/10.1080/09362830902805848>
- Marino M. T.**, Sameshima, P., & \*Beecher, C. C. (2009). Integrating TPACK in pre-service teacher education: Frameworks for promoting inclusive educational practice. *Contemporary Issues in Technology and Teacher Education*, 9(2), 186-207. <https://citejournal.org/volume-9/issue-2-09/general/enhancing-tpack-with-assistive-technology-promoting-inclusive-practices-in-preservice-teacher-education/>

**Marino, M. T.,** & \*Beecher, C. C. (2008). Assistive technology policy: Promoting inclusive education for students with reading disabilities. *Northwest Passage: Journal of Educational Practices*, 6(1), 14-22. <https://pdxscholar.library.pdx.edu/nwjte/vol6/iss1/3/>

**Marino, M. T.,** Marino, E. C., & Shaw, S. F. (2006). Making informed assistive technology decisions for students with high incidence disabilities. *Teaching Exceptional Children*, 38(6), 18-25. <https://journals.sagepub.com/doi/abs/10.1177/004005990603800603?journalCode=tcxa>

### Journal Guest Editorship

Basham J. D. & **Marino, M. T.** (Eds.). (2010). Science, Technology, Engineering, and Mathematics in Special Education. *Journal of Special Education Technology*, 25(3), 1-2.

### Refereed Book Chapters

**Marino, M. T.,** Vasquez, E., & Parsons, C. (2022). Ensuring students with high incidence disabilities are successful in nontraditional STEM learning environments. In K. Roy & T. S., Love (Eds.), *Safer Makerspaces, Fab Labs, and STEM labs: A collaborative Guide 2<sup>nd</sup> edition*. Vernon, CT: National Safety Consultants, LLC.

Israel, M., **Marino, M. T.,** Yan, W., & Samuels, J. H. (2021). *Using technology to support effective inclusive elementary schools*. In J. McKleskey, B. Algozzine, & N. L. Waldron (Eds.) *Handbook of Effective Inclusive Elementary Schools Research and Practice 2<sup>nd</sup> edition*. Milton Park, England: Routledge.

**Marino, M. T.,** Parsons, C. A., Brewer, J., & Vasquez, E. (2021). Students with disabilities in science/STEM. In K. Roy & K. Doyle [Eds.], *Science Laboratory Safety Manual 4<sup>th</sup> edition* (pp. 351-362). Vernon, CT: National Safety Consultants, LLC.

Basham, J. D., **Marino, M. T.,** \*Hunt, C. & \*Han, K. (2020). Considering STEM for Learners with Disabilities and Other Diverse Needs. In C., Johnson, M., Mohr-Schroder, T., Moore, & L., English (Eds.). *Handbook of Research on STEM Education* (pp. 128-137). Philadelphia, PA: Routledge. ISBN: 9780367075606, 0367075601. <https://www.routledge.com/Handbook-of-Research-on-STEM-Education/Johnson-Mohr-Schroeder-Moore-English/p/book/9780367075620>

Madaus, J. W., Dukes III, L. L., Fleming, A. R., Lindstrom, J. E., Lindstrom, W., & **Marino, M. T.** (2020). Promoting access to supports and accommodations in postsecondary education. In K. Shogren and M. Wehmeyer (Eds.), *Handbook of Adolescent Transition Education for Students with Disabilities*. 330-345. New York: Routledge. <https://www.routledge.com/Handbook-of-Adolescent-Transition-Education-for-Youth-with-Disabilities/Shogren-Wehmeyer/p/book/9780367188016>

**Marino, M. T.,** Israel, M., Vasquez, E., \*Fisher, K. M., & \*Gallegos, B. (2019). Teaching and learning with technology. In A. S. Canestrari, & B. A. Marlowe (Eds.), *The Wiley International Handbook of Educational Foundations* (pp. 245-261). Hoboken, NJ: Wiley Blackwell. ISBN: 978-1-118-93180-6. <https://www.wiley.com/en-us/The+Wiley+International+Handbook+of+Educational+Foundations-p-9781118931806>

**Marino, M. T.** (2002). Developing a middle level science learning center investigation. In Voss, R. (Ed.), *The world in the minds of our pupils: A necessary change of perspectives in teaching methods* (pp. 85-104). Neuwied, Germany: Luchterhand.

### Commissioned Paper

Israel, M., **Marino, M.**, \*Delisio, L., & \*Serianni, B. (2014). Supporting content learning through technology for K-12 students with disabilities (Document No. IC-10). Retrieved from University of Florida, Collaboration for Effective Educator, Development, Accountability, and Reform Center (CEEDAR). <http://cedar.education.ufl.edu/tools/innovation-configurations/>

### Professional Development Handbooks

**Marino, M.**, \*Rollins, G., \*Deleon, A., & \*Roselle, R. (2005). Professional development center coordinator handbook. Storrs: University of Connecticut, Neag School of Education.

**Marino, M.**, Scott, S., McGuire, J., & \*Embry, P., (2004). Assess the assessment: A case study on the application of Universal Design for Instruction in the graduate teaching assistant role. Storrs: University of Connecticut, Center on Postsecondary Education and Disability.

**Marino, M.**, Scott, S., McGuire, J., & \*Embry, P., (2004). Dramatic tension: A case study on the application of Universal Design for Instruction in the graduate teaching assistant role. Storrs: University of Connecticut, Center on Postsecondary Education and Disability.

### Refereed Proceedings

**Marino, M. T.** & Vasquez, E. (2020). *Coaching as a means to enhance executive function for postsecondary STEM majors*. AERA annual conference. San Francisco, CA. Conference Cancelled.

Vasquez, E. & **Marino, M. T.** (2020). *A five-year PLS-SEM study of postsecondary STEM majors*. AERA Annual conference. San Francisco. CA. Conference Cancelled.

**Marino, M. T.** & Vasquez, E. (2019). *Changing students' lives with personalized executive function mentoring*. 2019 UDL IRN Summit. Retrieved from <https://www.learningdesigned.org/resource/changing-students-lives-personalized-mentoring>

**Marino, M. T.**, Vasquez, E., & Basham, J. D. (2017). *Preparing special educators to promote college and career readiness in STEM: The iCAN project*. Proceedings from the American Education Research Association Annual Meeting. San Antonio, TX.

**Marino, M. T.**, Basham, J. D., & Vasquez, E. (2017). *Teen Career Pathway: An analysis of a career preparation video game for middle school students with and without disabilities*. Proceedings from the American Education Research Association Annual Meeting. San Antonio, TX.

\*Coy, K., **Marino, M. T.**, & \*Serianni, B. (2015). *Measuring Universal Design for Learning in the virtual school landscape*. Selected papers from the 2014 UDL-IRN Summit (pp. 91-110). Lawrence, KS: UDL IRN published monograph.

- \*Koch, A., Vasquez, E., **Marino, M. T.**, Straub, C., Schaffer, K., & \*Donehower, C. (2014). *Trial based functional analysis in virtual environments for teacher preparation*. Proceedings from the Second Annual TeachLivE Conference. Orlando, FL.
- Vasquez, E., Straub, C., \*Nagendran, A., **Marino, M. T.**, Schaffer, K., \*Koch, A., \*Delisio, L., & Russel, M. (2014). *A comparison of simulated and traditional environments on the social responses for children with autism*. Proceedings from the Second Annual TeachLivE Conference. Orlando, FL.
- Israel, M., \*Wang, S., **Marino, M. T.**, & Basham, J. D. (2014). *A multilevel analysis of diverse learners playing science video games: Interactions between gaming features, learning disability status, reading proficiency, and gender*. Paper presented at the American Educational Research Association 14<sup>th</sup> Annual Meeting. Philadelphia, PA.
- Marino, M. T.**, & Black, A. (2010). *Factors associated with struggling readers' achievement in a technology-based astronomy curriculum*. Paper presented at the American Educational Research Association 10<sup>th</sup> Annual Meeting. Denver, CO.
- Marino, M. T.** (2008). *Washington State University Technology Resource Database: Identifying effective technology designs for students with dyslexia*. ED-MEDIA World Conference on Educational Multimedia, Hypermedia, and Telecommunications (pp. 1302-1306). Vienna, Austria.
- Marino, M. T.** (2007). *Technology-based curricula: Implications for adolescent students with reading difficulties*. In G. Marks (Ed.), *Association for the Advancement of Computing in Education. Society for Information Technology & Teacher Education: 18th International Conference* (pp. 3634-3640). San Antonio, TX.
- Page, M., Marlowe, B., Hauge, K., **Marino, M. T.**, & Maloney, D. (2003). *The tyranny of progressive public schooling: Shaking up the dominant class*. In J. Lasonen & L. Lestinen (Eds.), *Teaching and Learning for Intercultural Understanding, Human Rights and a Culture of Peace. UNESCO Conference Proceedings: Intercultural Education, Institute of Educational Research* (pp. 15-18.), University of Jyväskylä, Finland.

### **Manuscripts in Press or Review**

Hunt, J., Taub, M, Marino, M. T., Duarty, A, & Bently, B. (In review) Enhanced engagement and fraction concept knowledge with a universally designed game-based curriculum. *Intervention in School and Clinic*.

### **Educational Video Games**

North Carolina State University (PI Hunt) and University of Central Florida (Co-PIs Marino & Taub). (2021). [Dream 2B](#). Product of NSF award #1949122

Filament Games & **Marino, M. T.** (2016). [Prisoner of Echo](#). Product of NSF Award 09-541. Filament Games. Madison: WI.

Filament Games & **Marino M. T.** (2012). [Cell Command](#). Product of U.S. Department of Education, Institute of Education Sciences Award #ED-IES-10-C-0023. Filament Games. Madison: WI.



Filament Games & **Marino M. T.** (2012). [Crazy Plant Shop](#). Product of U.S. Department of Education, Institute of Education Sciences Award #ED-IES-10-C-0023. Filament Games. Madison: WI.

Filament Games & **Marino M. T.** (2012). [Reach for the Sun](#). Product of U.S. Department of Education, Institute of Education Sciences Award #ED-IES-10-C-0023. Filament Games. Madison: WI.

Filament Games & **Marino M. T.** (2012). [You Make Me Sick!](#). Product of U.S. Department of Education, Institute of Education Sciences Award #ED-IES-10-C-0023. Filament Games. Madison: WI.

## **External Funding**

### **National Funding**

2021-2025 National Center to Improve Faculty Capacity to Use Educational Technology in Special Education, Early Intervention, and Related Services Personnel Preparation and Leadership Personnel Preparation: **Center for Innovation, Design, and Digital Learning**. Co-Principal Investigator. 2.5 million. U.S. Department of Education, Office of Special Education Programs. Award #H327F200008.

2020 – 2023 **Enhancing Engagement and Conceptual Understanding of Fractions for Students with Learning Disabilities using the Model Education Mathematics Curriculum**. Co-Principal Investigator. 1.4 million. National Science Foundation. Award #1949122.

2019 – 2023 **Technology Enhanced Learning Enabled by Partner Organizations, Research, & Teaching Success: TELEPORTS**. Principal Investigator. 1.25 million. U.S. Department of Education, Office of Special Education Programs. Award #H325D180022.

2018 – 2019 **Operation Investigation Translation and Hero Elementary Container Game Development for Project Ready to Learn (RTL)**. \$110,000. Co-Principal Investigator. Contract with Public Broadcasting Stations (PBS), U.S. Department of Education Award Number U295A100025, CFDA No. 84.295A

2018 – 2019 **Sound Game Development for Project Ready to Learn (RTL)**. \$150,000. Co-Principal Investigator. Contract with Public Broadcasting Stations (PBS), U.S. Department of Education Award Number U295A100025, CFDA No. 84.295A

2018 – 2019 **Lights and Shadow Game Development for Project Ready to Learn (RTL)**. \$135,847. Co-Principal Investigator. Contract with Public Broadcasting Stations (PBS), U.S. Department of Education Award Number U295A100025, CFDA No. 84.295A

2015 – 2018 **Interdisciplinary Coaching As a Nexus for transforming how institutions support undergraduates in STEM (iCAN)**. \$250,000, Principal Investigator, National Science Foundation (NSF 14-588). Award #1505202.



2015 – 2020 **Preparing special educators in Autism Spectrum Disorders.** \$1.25 million, Co-Principal Investigator, U.S. Department of Education Office of Special Education and Rehabilitation Services (CFDA 84.325). Award #H325K150201.

2010 - 2013 **Game-enhanced interactive life science for students with learning disabilities.** \$838,000, Co-Principal Investigator. U.S. Department of Education, Institute of Education Sciences. Education technology products for students (ED-IES-10-R-0008). Award #ED-IES-10-C-0023.



✓ Teacher & Student Guides



✓ 4 main units



✓ 2 enrichment units



✓ For web & tablet\*

2010 - 2013 **Interactive Field Investigation Guide (iFIG): An accessible platform to provide STEM for ALL** \$400,000, Co-Principal Investigator, U.S. Department of Education, Office of Special Education & Rehabilitative Services, Steppingstones of technology innovation for children with disabilities (CFDA 84.327A), Award # H327A100047.



2011 **Game-enhanced Interactive Physical Science**, \$150,000, Co-Principal Investigator, National Science Foundation (NSF 09-541) Award # IIP-1046229.



### Invited Presentations, Workshops, & Webinars

**Marino, M. T.,** Zhang, L., \*Wilder, T., \*Goldman, S., \*Hoekstra, N. J., \*Grays, A. (2022, April). **Presentation.** *Get to know the CIDDL Center.* Universal Design for Learning Implementation and Research Network. Annual Summit. Virtual.

**Marino, M. T.,** & Parsons, C. (2022, January). **Presentation.** Technology trends and needs for preparing special educators and related service personnel: CIDDL Center. Council for Exceptional Children Annual Conference. Orlando, FL.

**Marino, M. T.,** & Moore, E. (2021, November). **Webinar.** *Universal Design for Learning in Inclusive Education Services: A vision for the future.* Florida Center for Students with Unique Abilities. Orlando, FL.

Blackorby, J., Israel, M., **Marino, M. T.,** & Moore, E. (2021, June). **Webinar.** *Embracing student differences in STEM education.* National Science Foundation. Community for Advancing Discovery Research in Education PI Meeting. Washington, D.C.

**Marino, M. T.** & Marino, E. F. (2021, May). **Webinar.** *Model Mathematics Education (ModelME): A video game for students in tier two elementary classrooms.* National Center for Innovation, Design, and Digital Learning (CIDDL). Lawrence, Kansas.

- Marino, M. T.,** Anderson, K., & Brewer, J. (2020, June). **Presentation.** *Universal Design for Learning in Video Games. UDL-IRN Virtual Summit.* UDL-IRN & CAST. Wakefield, MA.
- Marino, M. T.** & Vasquez, E. (2020, May). **Webinar.** *Universal Design for Learning in Virtual Environments.* Unconference. Sponsored by the U.S. Department of Education Institute of Education Sciences, CAST, & Benetech. Washington, D.C.
- Vasquez, E. & **Marino, M. T.** (2020, January). **Presentation.** *Infusing Universal Design for Learning in Virtual Environments.* Lunch with Leaders Project Directors Meeting. Office of Special Education Programs, U.S. Department of Education. Washington D.C.
- Marino, M. T.,** Parson, C., & Vasquez, E. (2019, December). **Presentation.** *Infusing Universal Design for Learning in video games.* Universal Design for Learning Implementation & Research Network southeastern conference. Orlando, FL.
- Vasquez, E., Pearl, C., **Marino, M. T.,** Hopkins, R., (2018, August). **Presentation.** Quality indicators for classrooms serving students with autism spectrum disorders (QIASD). OSEP Project Directors Conference. Washington, DC.
- Basham, J. D., Bergman, M., Howery, K., & **Marino, M. T.** (2017, May). **Webinar.** *Overcoming the controversy of technology and UDL.* Universal Design for Learning Implementation and Research Network.
- Marino, M. T.** & Vasquez, E. (2017, May). **Presentation.** *Understanding executive function disorders in postsecondary education.* UCF Summer Faculty Development Conference.
- \*Schreffer, J. & **Marino, M. T.** (2017, May). **Presentation.** *Universal Design for Learning: A framework for accessible curricular materials.* UCF Summer Faculty Development Conference.
- Marino, M. T.** (2017, May). **Keynote.** *Strategies for mastering life with a disability.* Orange County High School High Tech Program. Orlando, FL.
- Marino, M. T.** (2017, April). **Presentation.** *Infusing Universal Design for Learning in video games.* Public Broadcast System (PBS) Kids & WestEd. Washington: DC.
- Gardner, J. E., Lowery, A., **Marino, M. T.,** Rao, K., Smith, S., & Wojic, B. (2017, March). **Panel Discussion.** *Critical issues for UDL research.* UDL Implementation and Research Network Summit. Orlando, FL.
- Gardner, J. E., Lowery, A., **Marino, M. T.,** Rao, K., Smith, S., & Wojic, B. (2017, March). **Panel Discussion.** *UDL research: The next phase.* UDL Implementation and Research Network Summit. Orlando, FL.
- Marino, M. T.** (2017, March). **Presentation.** *Designing educational video games.* Crooms Academy of Information Technology. Sanford, FL

- Marino, M. T.** (2016, November). **Presentation.** *Research strategies to promote academic success.* University of New South Wales (UNSW). Sydney: AU.
- Basham, J. D., Dieker, L. A., Gardner, J. E., **Marino, M. T.**, & Vasquez, E. (2016, November). **Panel Discussion.** *Innovative technologies in teacher preparation programs.* Teacher Education Division of the Council for Exceptional Children Annual Conference. Lexington, KY.
- Israel, M., **Marino, M. T.**, Moody, A., & Munson, J. (2016, September). **Webinar.** *Innovations in STEM education: Technology to support students with autism.* U.S. Department of Education Offices of Special Education Programs and STEM initiatives.
- Marino, M. T.** (2016, April). **Presentation.** *iCAN: A collaborative study to promote STEM performance and persistence for college students with disabilities.* Landmark College, Putney VT.
- Marino, M. T.**, Vasquez, E., Hines, R., & Holbrook, J. (2016, April). **Workshop.** *Technology Innovations at the University of Central Florida.* Florida Technology Leadership Consortium. Orlando, FL.
- Basham, J. D., **Marino, M. T.**, DeCoste, D., & Diedrich, J. (2016, February). **Presentation.** *Universal Design for Learning town hall forum.* Assistive Technology Industry Association (ATIA) Annual Conference. Orlando, FL.
- Marino, M. T.** (2016, January). **Presentation.** *Bringing a model of STEM supports for students with disabilities to scale: The iCAN project.* American Educational Research Association special education STEM meeting. University of California, Santa Barbara, CA.
- Israel, M. & **Marino, M. T.** (2015, May). **Webinar.** *Enhancing content learning with technology for students with disabilities.* CEEDAR Center. University of Florida. Gainesville, FL.
- Marino, M. T.** (2014, November). **Keynote.** *Designing learning environments for all students: Increasing access through technology.* Urban Collaborative 20<sup>th</sup> Anniversary Meeting. Houston, TX.
- Marino, M. T.** (2014, August). **Workshop.** *Designing effective online special education graduate programs.* University of Kansas Center for Research on Learning. Lawrence, KS.
- \*Coy, K., **Marino, M. T.**, & \*Serianni (2014, January). **Pre-conference workshop.** *Universal Design for Learning in k-12 virtual schools.* Florida Education Technology Conference. Orlando, FL.
- Marino, M. T.**, Osmond, S., Pineda, L., Merritt, G. C., & Leboff, J. (2014, January). **Presentation.** *Can video games make you smarter?* Orlando Science Center. Orlando, FL.
- Marino, M. T.** (2013, April). **Presentation.** *Universal Design for Learning in virtual learning environments.* Harvard Graduate School of Education. Cambridge, MA.

- Marino M. T.** (2012, November). **Featured Speaker.** *Increasing middle school students' STEM performance using video games.* University of Central Florida Research and Commercialization Outreach Services annual meeting. Orlando, FL.
- Rose, D., Edyburn, D., Basham, J. D., & **Marino, M. T.** (2012, April). **Presentation.** *Supporting UDL: Current and future innovations.* Council for Exceptional Children Annual Convention. Denver, CO.
- Marino, M. T.** (2011, May). **Keynote.** *Using video games to engage all students in STEM!* Bringing STEM Innovations to Life Annual Conference. Cincinnati, OH.
- Marino, M. T.** (2011, October). **Presentation.** *Enhancing STEM education with video games.* University of Kansas, Center for Research on Learning. CRL Learns Lecture Series. Lawrence, KS.
- Basham, J. D., Israel, M., **Marino, M. T.**, Gardner, J. E., & \*Gauthier, W. (2011, April). **Presentation.** *Using technology to support science, technology, engineering, and mathematics (STEM) for all.* Council for Exceptional Children Annual Convention: Technology and Media Showcase Presentation. Baltimore, MD.
- Marino, M. T.** (2009, April). **Presentation.** *Improving curriculum access with multiplayer virtual reality games.* Council for Exceptional Children Annual Convention. Seattle, WA.
- Marino, M. T.** (2004, November). **Presentation.** *Assessment in the inquiry-based science classroom.* Galileo Project. Storrs, CT.
- Kelleher, J. & **Marino, M. T.** (2004, October). **Presentation.** *Using measurement, evaluation and communication to introduce a new electronic portfolio assessment system in the Neag School of Education.* Assessment Institute. Indiana University-Purdue University Indianapolis, IN.
- Marino, M. T.** (2004, April). **Presentation.** *Implementing science curriculum reform.* Galileo Project. Storrs, CT.
- Marino, M. T.** (2003, September). **Presentation.** *Creating a constructivist-learning environment in your classroom.* Second Congress on Educational Reform. Reinventing Schools: Praxis, Reflection & Instruction. Koblenz, Germany.

### Refereed Conference Presentations

#### **International**

- Marino, M. T.**, Hunt, J., Taub, M.& \*Holman, K. (2022, April). *Dream2B.* Universal Design for Learning Implementation and Research Network. Annual Summit. Virtual.
- Marino, M. T.**, \*Wilder, T., \*Patterson, M. S., \*Grace, B., \*Grays, A., \*Holman, K., & \*Rujimora, J. (2022, April). *Mapping the future: Teacher preparation across the United States.* Universal Design for Learning Implementation and Research Network. Annual Summit. Virtual.

- Marino, M. T.,** Vasquez, E., & \*Coy, K. (2016, November). *An analysis of Universal Design for Learning during online instruction*. Australian Association of Research in Education. Melbourne, AU.
- Marino, M. T.,** Vasquez, E., & Basham, J. D. (2016, November). *Teen Career Pathway. A science, technology, engineering, and mathematics (STEM) career video game pilot study*. Australian Association of Research in Education. Melbourne, AU.
- Marino, M. T.,** & Vasquez E. (2016, November). *Teaching teachers to promote college and career readiness in science, technology, engineering, and mathematics (STEM): The iCAN project*. Australian Association of Research in Education. Melbourne, AU.
- \*Coy, K., **Marino, M. T.,** & \*Serianni, B. (2013, October). *Universal Design for Learning in the virtual school landscape*. International Association for K-12 Online Learning (iNACOL) Blended and Online Learning Symposium annual conference. Orlando, FL.
- Basham, J. D., Dunn, A., **Marino, M. T.,** Rose, D., H., Yoo, D., & Zabala, J. (2013, June). *Innovation and Universal Design for Learning*. International Society for Technology in Education Annual Convention. San Antonio, TX.
- Marino, M. T.** (2008, July). *Washington State University Technology Resource Database: Identifying effective technology designs for students with dyslexia*. ED-MEDIA World Conference on Educational Multimedia, Hypermedia, and Telecommunications. Vienna, Austria.
- Marino, M. T.** (2007, March). *Technology-based curricula: Implications for adolescent students with reading difficulties*. Society for Information Technology & Teacher Education: 18th International Conference. San Antonio, TX.
- Marlowe, B., & **Marino, M. T.** (2003, June). *The tyranny of progressive public schooling: Shaking up the dominant class*. UNESCO: Teaching and Learning for Intercultural Understanding, Human Rights and a Culture of Peace. Jyvaskyla, Finland.

## **National Presentations**

- Marino, M. T.,** Hunt, J., H., & Taub, M. (2022, April). *An analysis of Universal Design for Learning guidelines, principles, and checkpoints in a contemporary mathematics videogame*. American Education Research Association Annual Meeting. San Diego, CA.
- Marino, M. T.** & Parsons, C. (2022, January). *Technology trends and needs for preparing special educators and related service personnel: The CIDDL Center*. Council for Exceptional Children Annual Convention. Orlando, FL.
- Hunt, J. H., Taub, M., **Marino, M. T.,** Duarte, A., Anderson, K. & Brewer, J. (2021, October). *Universal Design of a Tier 2 Fraction Video Game*. 43<sup>rd</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA 43). Philadelphia, PA.

- Hunt, J. H., Taub, M., & **Marino, M. T.** (2021, June). *Fraction assessment activities for conceptual teaching / Model Mathematics Education (ModelME)*. Poster presented at National Science Foundation. Community for Advancing Discovery Research in Education PI Meeting, Washington, D.C.
- Taub, M., **Marino, M. T.**, & Hunt, J. (2021, March). *Gameplay analytics indicate students' access and advancement: Design of Mathematics Education*. Council for Exceptional Children annual convention. Virtual.
- Marino, M. T.** & Vasquez, E. (2020, April). *Coaching as a means to enhance executive function for postsecondary STEM majors*. American Educational Research Association (AERA) annual conference. San Francisco, CA. Conference Cancelled.
- Marino, M. T.** & Vasquez, E. (2020, April). *A five year PLS-SEM study of postsecondary STEM majors*. American Educational Research Association (AERA) Annual conference. San Francisco, CA. Conference Cancelled.
- Roy, K. & **Marino, M. T.** (2020, March). *Developing fun and safe STEM labs for students with high incidence disabilities*. National Science Teacher Association annual conference. Boston, MA. Conference Cancelled.
- Marino, M. T.**, Vasquez, E., Gaiser, J., & Wright, C. (2019, June). *Universal Design for Learning (UDL): Gaming and Simulation Innovations*. Serious Play Conference. Orlando, FL.
- Marino, M. T.**, Vasquez, E., & Banerjee, M. (2019, May). *iCAN: Enhancing executive function in STEM majors*. Postsecondary Disability Training Institute. Boston, MA.
- Marino, M. T.** & Vasquez, E. (2019, March). *Changing students' lives with personalized executive function mentoring*. 2019 UDL IRN Summit. Orlando, FL.
- Marino, M. T.**, Vasquez, E., & Basham, J. D. (2017, April). *Preparing special educators to promote college and career readiness in STEM: The iCAN project*. Proceedings from the American Education Research Association Annual Meeting. San Antonio, TX.
- Marino, M. T.**, Basham, J. D., & Vasquez, E. (2017, April). *Teen Career Pathway: An analysis of a career preparation video game for middle school students with and without disabilities*. Proceedings from the American Education Research Association Annual Meeting. San Antonio, TX.
- Berkeley, S., **Marino, M. T.**, Vasquez, E., Whitehead, A., & Annetta, L. (2017, April). *Lessons from a decade of video game research for students with disabilities in science education*. Symposium presentation at the Annual Meeting of the National Association for Research in Science Teaching (NARST). San Antonio, TX.
- Marino, M. T.**, Vasquez, E., & Banerjee, M. (2016, June). *Interdisciplinary Coaching As a Nexus for transforming how institutions support undergraduates in STEM (iCAN)*. Postsecondary Disability Training Institute. Philadelphia, PA.

- Marino, M. T.**, Basham, J. D., Vasquez, E., & Israel, M. (2016, April). *Gaming and Learners with Disabilities*. Council for Exceptional Children Annual Convention, St. Louis, MO.
- Coy, C. & **Marino, M. T.** (2016, April). *Applying UDL in digital learning environments*. Council for Exceptional Children Annual Convention, St. Louis, MO.
- Marino, M. T.**, Vasquez, E., & \*Donehower, C. (2016, March). *iCAN: An exploratory study of UDL principles for college students with and without disabilities*. Universal Design for Learning Implementation Research Network annual convention. Towson University, MD.
- Israel, M., **Marino, M. T.**, & Basham, J. D. (2014, April). *Teaching science with video games: Implications for engaging students with disabilities*. Council for Exceptional Children Annual Convention, Philadelphia, PA.
- Israel, M., Wang, S., **Marino, M. T.**, & Basham, J. D. (2014, April). *A multilevel analysis of diverse learners playing science video games: Interactions between gaming features, learning disability status, reading proficiency, and gender*. Paper presented at the American Educational Research Association 14<sup>th</sup> Annual Meeting. Philadelphia, PA.
- Basham, J. D., **Marino, M. T.**, Lowery, A., Gardner, J., & \*Coy, K. (2014, March). *Overcoming barriers to UDL implementation*. Universal Design for Learning Implementation Research Network annual convention. John's Hopkins University, MD.
- Vasquez, E. & **Marino, M. T.** (2014, March). Project Autism Spectrum Disorders. Paper Presented at the *American Council on Rural Special Education Conference*, Tempe, AZ.
- Marino, M. T.**, \*Beecher, C. C., \*Delisio, L., & \*Becht, K. (2013, April). *Increasing students' STEM performance using video games*. Council for Exceptional Children Annual Convention, San Antonio, TX.
- \*Coy, K. A., Smith, S., **Marino, M. T.**, & Basham, J. (2013, April). *Online instruction with Universal Design for Learning in the K-8 virtual classroom*. Council for Exceptional Children Annual Convention, San Antonio, TX.
- Gardner, J., Basham, J., \*Coy, K. A., Israel, M., **Marino, M. T.**, & Smith, S. (2013, April) *Universal Design for Learning: Operation, measurement, and fidelity of implementation issues*. Council for Exceptional Children Annual Convention, San Antonio, TX.
- Israel, M., & **Marino M. T.** (2012, November). *Resources for understanding STEM in special education*. Council for Exceptional Children Teacher Education Division Annual Conference. Grand Rapids, MI.
- Basham, J. D., Israel, M., & **Marino M. T.** (2012, April). *Cool tools to engage students in STEM education*. Council for Exceptional Children Annual Convention. Denver, CO.
- Marino, M. T.**, \*Beecher, C. C., & \*Coy, K. (2012, April). *Teaching with video games: Engaging ALL students in STEM education*. Council for Exceptional Children Annual Convention. Denver, CO.



- Marino, M. T.,** White, D., Norton, D., Quinn, B., & Basham (2011, June). *Designing middle school science games for students who struggle with reading*. Games+Learning+Society. Seventh Annual Conference. Madison, WI.
- Marino, M. T.,** Basham, J. D., & White, D. (2011, March). *Using video games to help students with learning disabilities and other at-risk students succeed in secondary science classes*. National Science Teachers Association National Conference on Science Education. San Francisco, CA.
- Marino, M. T.,** & Black, A. (2010, May). *Factors associated with struggling readers' achievement in a technology-based astronomy curriculum*. Paper presented at the American Educational Research Association Annual Meeting. Denver, CO.
- Marino, M. T.,** & Basham, J. D. (2010, April). *Using technology to enhance science, technology, engineering, and mathematics (STEM) learning*. Council for Exceptional Children Annual Convention. Nashville, TN.
- Marino, M. T.,** & \*Antony, P. (2008, April). *The effect of altered readability levels in a technology-based middle school science curriculum*. Council for Exceptional Children Annual Convention. Boston, MA.
- Marino, M. T.** (2005, April). *Implementing electronic portfolios as an accountability measure in pre-service special education programs*. 28th Annual Teacher Education Division of the Council for Exceptional Children Convention. Portland, ME.
- Marino, M. T.** (2005, April). *Technology: Improving access to the general education curriculum*. Council for Exceptional Children Convention. Baltimore, MD.

## **Regional Presentations**

- Marino, M. T.,** & \*Parsons, C. (2019, December). *Infusing Universal Design for Learning in Video Games*. UDL-IRN & Toni Jennings Exceptional Education Institute Regional Conference.
- Marino, M. T.,** Vasquez, E., Hines, R., & Holbrook, J. (2016, April). *Technology innovations at the University of Central Florida*. Workshop for Florida Technology Leadership Consortium.
- \*Coy, K., **Marino, M. T.,** & \*Serianni, B. (2014, February). *Universal Design for Learning in K-12 virtual schools*. Florida Education Technology Conference. Orlando, FL.
- Marino, M. T.** (2010, March). *Enhancing middle school science performance with universally designed video games*. Washington Association of School Administrators Annual Conference. Yakima, WA.
- Marino, M. T.** (2008, January). *Effective technologies that support inclusive science instruction*. Florida Education Technology Conference (FETC). Orlando, FL.
- Marino, M. T.** & Roy, K. (2007, April). *Using technology to promote science literacy for students who struggle with reading*. National Science Teachers Association National Conference on Science Education. St. Louis, MO.

**Marino, M. T.** (2007, February). *Supporting students with reading difficulties using technology*. 25<sup>th</sup> Annual Inter-Disciplinary Educational Alternate Strategies (IDEAS) Conference. Spokane, WA.

**Marino, M. T.,** Roy, K., & Nichols, S. (2005, November). *Students with learning disabilities and science: Technology lights the learning fire*. National Science Teachers Association Eastern Area Convention. Hartford, CT.

## University Teaching

### **University of Central Florida, Orlando**

EEX 4242 – Teaching Exceptional Students in Secondary Settings (Undergraduate)  
EEX 4941 – Student Teaching Supervisor (Undergraduate / Graduate)  
EEX 4763 – Technology for Teachers of Students with Special Needs (Undergraduate)  
EEX 6065 – Programming for Students with Disabilities at the Secondary Level (Graduate)  
EEX 6938 – College and Career Readiness for Adolescents with Disabilities (Graduate)  
EEX 7527 – Professional Writing / Grant Writing (Doctoral)  
EEX 6918 – Directed Research (Doctoral)  
EEX 6908 – Directed Independent Studies (Doctoral)  
EEX 7466 – Universal Design for Learning: A framework for Exceptional Education Research (Doctoral)

### **Washington State University, Pullman**

SPED 595 – Universal Design for Learning (Doctoral)  
SPED 420/520 – Teaching in the Inclusive Classroom (Undergraduate/Masters)  
SPED 403 /503 – Secondary Education for Students with Disabilities (Undergraduate/Masters)  
T&L 470 - Methods for Teaching English Language Learners and Students with Disabilities for Secondary Teachers (Undergraduate)

### **University of Connecticut, Storrs**

EPSY 308 - Instruction for Students with Special Needs in the Mainstream  
EDCI 391 – Learning Theories  
EGEN 294, 295, & 297 – Student Teaching Seminars  
Students with Disabilities for Secondary Teachers (Undergraduate)

## National Review Service

- National Science Foundation - Technical Reviewer (2008 - present)
- Institute of Education Sciences (IES) Technical Reviewer (2016 – 2019)
- External Tenure and Promotion Reviewer (2015 – Present)
- Journal of Special Education Technology – Editorial Board (2009 – present)
- Journal of Science Education and Technology – Editorial Board (2017 – present)
- Journal of Postsecondary Education and Disability - Editorial Board (2011 – 2013)
- Exceptionality Education International – Review Board (2014 – present)

- Teaching Exceptional Children - Review Board (2012 – present).
- Remedial & Special Education – Review Board (2012 – present)
- Science Activities – Review Board (2017)
- FOCUS – Review Board (2015 – present)
- Journal of Research in Science Teaching –Review Board (2009 – present)
- Journal of Science Education & Technology – Review Board (2010 - 2017)
- NASSP Bulletin – Review Board (2010 – 2012)

### **National Committee Work**

- Co-Chair UDL Committee on level 1 District Certification Design (2017 - 2018).
- UDL Council (sponsored by CAST, UDL Implementation and Research Network, & the National Universal Design for Learning Taskforce) –Invited member (2016 – present).
- UDL Implementation & Research Network, Senior Advisor to the Board of Directors (2014-Present).

### **State Service**

#### **University of Central Florida**

- School of Teacher Education Tenure and Promotion Committee Chair (2020)
- School of Teacher Education Graduate Curriculum Committee Chair (2019-2020)
- Faculty Senate IT Committee (2017 – 2018)
- Faculty Senate Undergraduate Common Program Oversight Committee (2017)
- Faculty Senate Research Council (2013 – 2018)
- Faculty Council (alternate) (2014 – 2016)
- Coordinator - Exceptional Education M.A. & M.Ed. Graduate Programs (2013 – 2015)
- Annual Faculty Evaluation Standards and Procedures Committee (2013 – 2014)
- Chair - Research Incentive Award Selection Committee (2012 – 2013)
- College of Education and Human Performance Research Committee (Alternate 2017-2018)

#### **Other Central Florida Service**

- Chair: Central Florida STEM Education Council Advisory Committee (2013 – 2014)
- Central Florida STEM Education Council Advisory Committee (2012 – 2013)

#### **Washington State**

##### **Office of the Superintendent of Public Instruction**

- WEST-E Special Education Certification Assessment (2009)
- Special Education Endorsement Standards (2006 – 2009)
- Elementary Education Endorsement Standards (2006 – 2008)

##### **Washington State University Committees**

- Graduate Studies (2010 – 2012)
- Center for Education, Research, and Outreach (2008 – 2009)

### **College of Education Committees**

- Graduate Studies (2010 – 2012)
- Grant Proposal Review (2010 – 2012)
- Futures (2009)
- Chair - Electronic Portfolio Assessment and Accreditation (2007)

### **Department of Teaching and Learning Committees**

- Special Education (2006 – 2012)
- Elementary Education (2006 – 2012)
- Secondary Education (2007 – 2012)

## **Mentoring & Leadership**

### **Post-Doctoral Fellowship**

Dr. Benjamin Gallegos (2016-2017) with NSF funded project iCAN

### **Doctoral Dissertation Committees**

#### **Chair**

Fisher, K. (2016). *The relationship between extracurricular STEM activities and performance on the Florida Science Assessment*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.

Coy, K. (2012). *Online instruction with Universal Design for Learning in the synchronous K-12 Classroom*. Ph.D. Dissertation. Department of Teaching and Learning. Washington State University.

#### **Honors in the Major Committee Chair**

Parsons, C. (2017). *Metacognitive coaching as a means to enhance college and career success for students with executive function disorders*. College of Education and Human Performance, University of Central Florida.

#### **Committee Member**

Donehower, C. (2017). *The effect of an interactive robot on the social skills of early childhood learners*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.

Gallegos, B., (2016). *The role of virtual avatars in supporting middle school students from culturally and linguistically diverse backgrounds on science in after school programs*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.

Koch, A. (2016). *Project iCAN: An analysis of Landmark College Model of Supports*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.

- Bukaty, C. A. (2015). *Effects of mixed-reality peer interactions on workplace problem-solving of young adults with intellectual disabilities* Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.
- Delisio, L. A. (2015). *Effects of the KNWS graphic organizer and video self-modeling through voice thread on the mathematical word problem solving of students with disabilities*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.
- Hardin, S. E. (2014). *Predictors of school engagement for females with emotional and behavioral disabilities*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.
- Hughes, D. E. (2014). *The design and evaluation of a video game to help train perspective-taking and empathy in autism spectrum disorder children*. Ph.D. Dissertation, College of Sciences, Department of Modeling and Simulation. University of Central Florida.
- Serianni, B. (2014). *An analysis of online instruction practices for students with disabilities in K-12 settings*. Ph.D. Dissertation, College of Education and Human Performance, Department of Child, Family, and Community Sciences. University of Central Florida.
- Ehrli, H., F. (2014). *Examining the perspectives of college students with learning disabilities on their secondary education experience as it relates to serving students with learning disabilities and preparing them for graduation*. Ed.D. Dissertation, College of Education, Department of Child, Family, and Community Sciences. University of Central Florida,
- Hayes, A. T. (2013). *Effects of social presence on learning outcomes in virtual learning environments*. Ph.D. Dissertation, College of Sciences, Department of Modeling and Simulation. University of Central Florida.
- Beecher, C. C. (2011). *A latent growth curve analysis of reading achievement for an at-risk population*. Ph.D. Dissertation. Department of Teaching and Learning. Washington State University.
- Antony, P J. (2009). *How do social, cultural, and educational attitudes affect opportunities and daily experiences of people with disabilities in Kerla-India*. Department of Teaching and Learning. Washington State University.

### **External Committee Member**

- Hunt, C. (2020). *Does Universal Design for Learning exist in the Wild?* Ph. D. Dissertation, Department of Special Education. University of Kansas.
- Carter, R. A. (2017). *Understanding blended learning for students with and without disabilities*. Ph. D. Dissertation, Department of Special Education. University of Kansas.
- Alsalem M. A. (2015). *Considering and supporting the implementation of Universal Design for Learning among teachers of student who are deaf and hard of hearing in Saudi Arabia*. Ph. D. Dissertation, Department of Special Education. University of Kansas.

### **UCF Advising**

- Advising for over 200 M.A. and M.Ed. students in Exceptional Student Education.

## **Professional Associations**

- Universal Design for Learning Implementation and Research Network (2014 – present)
- Council for Exceptional Children (2004 – present)
- American Education Research Association (2004 – present)
- International Society for Technology in Education (2004 – present)
- Association for the Advancement of Computing in Education (2007 – 2012)
- National Science Teachers Association (2005 – 2010)