CURRICULUM VITAE – TIFFANY HERDER

EDUCATION

Ph.D., Educational Psychology, Learning Sciences, University of Wisconsin-Madison, WI, Present (Expected Graduation Summer 2022)

M.S., Educational Psychology, Learning Sciences, University of Wisconsin-Madison, WI, 2019

M.S., Instructional Design for Online Learning, Capella University, MN, 2008

B.A., Communication Studies, University of Minnesota-Twin Cities, MN, 2003

AWARDS & GRANTS

Institute of Educational Sciences, US Department of Education

Fellow, Interdisciplinary Training Program in Education Sciences, September 2017-2020, $96,000 stipend and research funds

University of Wisconsin-Madison, Wisconsin Center for Education Research

Fellow, The Network, September 2018-August 2020, $2,000 professional development funds

GRC on Visualization in Science & Education Visionary Grant / NASA

Co-Investigator on *ADVizE: A Data Visualization Experience for Pre-Service Teachers*, together with Principal Investigator Melissa Zrada (The College of New Jersey, Department of Integrative STEM Education), August 2019, $10,000 grant

Gordon Research Conference / The National Marine Sanctuary Foundation / NASA

August 2019, $1,345 travel award

August 2017, $1,345 travel award

EXPERIENCE

Research

Learning Representations & Technology Lab, University of Wisconsin, Madison, WI

Graduate Researcher, April 2018-Present

Fair Play Project, University of Wisconsin, Madison, WI

Project Assistant, May 2021-August 2021

GEAR Learning, University of Wisconsin, Madison, WI

Graduate Researcher, February 2018-July 2020

Epistemic Games Group, University of Wisconsin, Madison, WI

Graduate Researcher, August 2016-January 2018

Curriculum & Instructional Design

ZipEdTech, Los Angeles, CA

Director of Instructional Design, September 2015-June 2016

Zenith Education Group, Santa Ana, CA

Director of Curriculum & Instructional Design – Everest University Online, August 2014-August 2015

Director of Curriculum & Instructional Design – Continuing Education & Professional Development, March 2014-August 2014

Rasmussen College, Bloomington, MN

Curriculum & Instructional Designer, August 2013-March 2014

Capella University, Minneapolis, MN

Senior Instructional Designer, July 2010-July 2013

Lead Instructional Designer, July 2008-July 2010

Associate Instructional Designer, June 2007-July 2008

Academic Administration

Capella University, Minneapolis, MN

Comprehensive Examination & Dissertation Specialist, July 2006-June 2007

Comprehensive Examination & Dissertation Associate, March 2005-July 2006

Comprehensive Examination & Dissertation Assistant, September 2003-March 2005

Office of Communication Intern, June-August 2003

University of Minnesota, Minneapolis, MN

Instructional Technology Fellowship Administrative Assistant, September 2001-2002

Teaching, Coaching, & Consultation

University of Wisconsin-Madison, Madison, WI

EDPSY301 How People Learn, Student Lecturer, Fall 2021-Spring 2022

EDPSY301 How People Learn, Teaching Assistant, Spring 2021

EDPSY795 Introduction to Learning Sciences I, Student Lecturer, Fall 2020

SIM University, Singapore

Instructional Design Consultant, June-August 2016

McNally Smith College of Music, St. Paul, MN

Online Learning Consultant, May 2009-2012

Fine Arts Interdisciplinary Resource School, Crystal, MN

Video Production Course Teaching Assistant, June-August 2003

University of Minnesota Studio B Project, Minneapolis, MN

Technical Crew Member, January-May 2003

Rosemount High School, Rosemount, MN

Debate Coach, August – December 2000

PUBLICATIONS

Book

Stavredes, T.M., & **Herder, T.M.** (2014). *Effective online course design: Foundations and strategies for student success*. Hoboken, NJ: Wiley.

Book Chapters

Stavredes, T.M., & **Herder, T.M.** (2013). Student persistence and teaching strategies to support it. In M.G. Moore (Ed.), *Handbook of Distance Education* (3rd Ed.) (pp. 155-169). New York, NY: Routledge.

Stavredes, T.M., & **Herder, T.M.** (2014). Supporting learner engagement and persistence in an online environment. In S.R. Harper, & S.J. Quaye (Eds.), *Student engagement in higher education: Theoretical perspectives and practical approaches for diverse populations* (2nd Ed.) (pp. 257-270). New York, NY: Routledge.

Journal Publications

Rau, M.A., Zahn, M., Misback, E., **Herder, T.,** & Burstyn, J. (2021). Adaptive support for representational competencies during technology-based problem solving in chemistry. *Journal of the Learning Sciences*, 1-41.

Rau, M.A., & **Herder, T.** (In Press). Under which conditions are physical vs. virtual representations effective? Contrasting conceptual and embodied mechanisms of learning. *Journal of Educational Psychology.*

Conference Publications

Herder, T., Swiecki, Z., Fougt, S. S., Tamborg, A. L., Allsopp, B. B., Shaffer, D. W., & Misfeldt, M. (2018, March). Supporting teachers' intervention in students' virtual collaboration using a network-based model. In *Proceedings of the 8th International Conference on Learning Analytics and Knowledge* (pp. 21-25). ACM.

Stavredes, T.M., & **Herder, T.M.** (2012). Creating powerful learning experiences: Authenticity, relevance, and community in online learning. *29th Annual Conference*

on Distance Teaching & Learning Conference Proceedings and Resources. Retrieved from http://www.uwex.edu/disted/conference/2013Proceedings.cfm

Stavredes, T.M., & **Herder, T.M.** (2012). Strategies and techniques to help online students persist. *28th Annual Conference on Distance Teaching & Learning Conference Proceedings and Resources*. Retrieved from http://www.uwex.edu/disted/conference/2012Proceedings.cfm

PRESENTATIONS

Conferences

Zrada, M., **Herder, T.,** Hunter-Thomson, K., Jabot, M., & Joyner, E. (2021). Increasing Pre-service Teachers' Confidence with Data and Computational Thinking using NASA Earth Data in Existing Methods Courses. Oral Session at Earth Educators' Rendezvous.

Zrada, M., **Herder, T.,** Hunter-Thomson, K., & Joyner, E. (2021). GLOBE Data + Pre-Service Teachers → Working to Build Data Literacy in STEM Teaching from the Group Up. Workshop session presented at the Globe Annual Meeting, Virtual.

Herder, T.M. (2019, August). *Learning with visual representations in an educational video game*. Invited presentation at the Play Make Learn Conference, Madison, WI.

Beall, M., Barker, R., & **Herder, T.M.** (2018, August). *Student Perspectives from Designing Learning Games for STEM.* Invited panelist at the Play Make Learn Conference, Madison, WI.

Stavredes, T.M., & **Herder, T.M**. (2013, August). *Creating powerful learning experiences: Authenticity, relevance, and community in online learning*. Information session presented at the Annual Conference on Distance Teaching and Learning Madison, WI.

Stavredes, T.M., & **Herder, T.M.** (2012, August). *Strategies and techniques to help online students persist*. Information session presented at the Annual Conference on Distance Teaching and Learning Madison, WI.

Posters

Herder, T.M. (2019, July). *Learning with visual representations in an educational video game*. Poster presented at the GRC Data Visualization Conference, Lewiston, ME.

Herder, T.M., Higgins, S., & Shaffer, D.W. (2017, February). *Immersive community outreach: Opening the black box of urban planning*. Poster presented at the WCER UW-Madison Education Research Poster Fair, Madison, WI.

Herder, T.M., Swiecki, Z., & Shaffer, D.W. (2017, August). *Designing a learning analytics dashboard for teachers*. Poster presented at the GRC Data Visualization Conference, Lewiston, ME.

Workshops

Herder, T.M. (2014). *Capstone project: Designing the optimal syllabus for the digital classroom*. Workshop presented at Wiley EdTech Summit for Introductory Accounting: Student Readiness, Learning Outcomes, and the Digital Classroom.

Herder, T.M. (2014). *Competency-based education workshop: Frameworks & foundations for scalable, sustainable competency-based programs*. Invited participant in panel discussions, Pearson Education.

Stavredes, T.M., & **Herder, T.M.** (2013, February). *Instructional design for online courses*. Online Workshop, Wiley Faculty Network.

Stavredes, T.M., & **Herder, T.M.** (2014, July). *Instructional design for online courses*. Online Workshop, Wiley Faculty Network.

Stavredes, T.M., & **Herder, T.M.** (2014, October). *Teaching online: An introduction to a competency-based online design framework*. Online Workshop, Wiley Faculty Network.

Stavredes, T.M., & **Herder, T.M.** (2015, February). *Teaching online: Purposeful online assessments to support competency demonstration*. Online Workshop, Wiley Faculty Network.

Stavredes, T.M., & **Herder, T.M.** (2015, April). *Teaching online: Using active learning strategies to support competency development*. Online Workshop, Wiley Faculty Network.

Institutional

Grant, L., & **Herder, T.M.** (2009, February). *Designing for our authoring environment*. Instructional Designer Workshop, Capella University.

Herder, T.M. (2019, August). *Learning with visual representations in an educational video game*. Lightning Presentation presented the WCER All Staff Conference, Madison, WI.

Herder, T.M. (2009). *Designing online courses*. Faculty development, McNally Smith College of Music.

Herder, T.M. (2009, December). *Online course: Spot coaching for managers*. Next Generation Learning Meeting, Capella University.

Herder, T.M., Chacholiades, L., & Cook, B. (2011). *New tools for you: Using Moodle to supplement your face-to-face classroom*. Faculty Development Days, McNally Smith College of Music.

Herder, T.M., & Grant, L. (2009, January). *Stakeholder perspectives*. Instructional Designer Workshop, Capella University.

Herder, T.M., & Satrom, B. (2010, January). *Instructional designer professional development opportunities*. Instructional Designer Workshop, Capella University.

Herder, T.M., & Quale, S. (2011, June). *Alignment in course development*. End to End Committee, Capella University.

Herder, T.M., Quale, S., & Mason, K. (2009, October*). Assessment strategies and frame of reference*. End to End Committee, Capella University.

Herder, T.M., & White, N. (2012, March). *Integrating persistence strategies*. Online Products and User Experience Meeting, Capella University.

Johnson, M., & **Herder, T.M.** (2011, January*). Instructional designer role, work environment, and professional development world café*. Instructional Designer Workshop, Capella University.

Johnson, M., & **Herder, T.M.** (2011, February). *Instructional design issues world café*. Instructional Designer Workshop, Capella University.

Kacheroski, K., & **Herder, T.M.** (2013, September). *Competency-based programs*. Executive Leader Presentation, Rasmussen College.

Williams, R., & **Herder, T.M.** (2012, February). *Strategies for using instructional design to impact learner persistence*. Instructional Designer Workshop, Capella University.

Williams, R., & **Herder, T.M.** (2012, April). *Integrating persistence strategies*. Instructional Designer Workshop, Capella University.

SERVICE

Learning Sciences Graduate Student Conference

Conference Planning Committee Co-Chair, September 2019-December 2020

Submissions & Reviews Committee Co-Chair, January-December 2019

Submissions & Reviews Committee Chair, January-December 2018

Planning Committee Member, January-December 2017

OTHER QUALIFICATIONS

- Strengths Finder Results – Strategic, Learner, Communication, Ideation, Intellection.
- Strong written and oral communication.
- Experience with qualitative and quantitative research methods.
- Excellent ability to resolve complex issues quickly and effectively.
- Strong interpersonal skills.
  - Ability to work effectively in a team setting.
  - Experience providing direct support, training, and coaching to diverse role groups and departments.
  - Ability to work cross-functionally across departmental lines.
- Experience with Learning Management Systems: Blackboard, Moodle, eCollege.
- Training and experience applying the Quality Matters rubric.