

Hannah Smith Ph.D.

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Current Positions

- 2023 - Visiting Assistant Professor
Department of Psychology, Assumption University, Worcester, MA
- 2023 - Senior Research Fellow
AIMS Center for Math and Science, Fresno, CA

Education

- 2023 Ph.D. Learning Sciences and Technologies | Worcester Polytechnic Institute
Dissertation: *Enhancing STEM Learning in Pre-K-12 Education: A Multifaceted Approach to Supporting Students and Training Teachers*
Advisor: Erin Ottmar, Ph.D.
- 2020 M.S. Learning Sciences and Technologies | Worcester Polytechnic Institute
Thesis: *Learning Through Games: How Math Games Can Enhance Education*
Advisors: Ivon Arroyo, Ed.D., Erin Ottmar, Ph.D.
- 2018 B.A. Psychology, B.A. Mathematics | University of Massachusetts Dartmouth
Summa Cum Laude
Thesis: *Factors Involved in Undergraduate Positive and Negative Attitudes Towards Mathematics*

Research Experience

- 2023 - present Senior Research Fellow | AIMS Center for Math and Science
Mentored undergraduate and post-graduate students
Qualitative data analysis lead
- 2021 - 2023 Research Fellow | AIMS Center for Math and Science
Designed and Implemented a professional development program for head start teachers on STEAM activities
Developed a research plan for the professional development program
- 2018 - 2023 Graduate Research Assistant | Worcester Polytechnic Institute
Educational Psychology and Mathematics Learning Lab
Advanced Learning Technologies Lab

- 2016 - 2018 Honors Research | University of Massachusetts Dartmouth
Worked across the Psychology and Mathematics departments to design surveys and collect and analyze data on undergraduate positive and negative attitudes to mathematics. Final project presented at the Honors Poster Presentation
- 2018 Undergraduate Research Assistant | University of Massachusetts Dartmouth
Collaboration with Ernestine Jennings Ph.D. & Meredith Dove Ph.D.
Conducted qualitative research in pediatric clinical psychology

Publications

*undergraduate student mentee ^high school student mentee

Peer Reviewed Journal Articles

- Chan, J. Y.-C., Closser, A. H., Ngo, V., **Smith, H.**, Liu, A., & Ottmar, E. (2023). Examining shifts in conceptual knowledge, procedural knowledge, and mathematical flexibility in the context of two game-based technologies. *Journal of Computer Assisted Learning*, 39(4), 1274-1289. <https://doi.org/10.1111/jcal.12798>
- Chan J. Y. C., Ottmar, E. R., **Smith, H.**, & Closser, A. H. (2022). Variables versus numbers: Effects of symbols and mathematical knowledge on students' problem-solving strategies. *Contemporary Educational Psychology*, 71, 102114. <https://doi.org/10.1016/j.cedpsych.2022.102114>
- Iannacchione, A.*, Ottmar, E., Ngo, V., Mason, C. A., Chan, J. Y. C., **Smith, H.**, Shaw, S. T., & Drzewiecki, K. (2022). Examining relations between math anxiety, prior knowledge, hint usage, and math performance in two different online learning contexts. *Jenny Instructional Science*.
- Arroyo, I., Closser, A. H., Castro, F., **Smith, H.**, Ottmar, E., & Micciolo, M. (2022). The Wearable Learning Platform: A computational thinking tool supporting game design and active play. *Technology, Knowledge, and Learning*. <https://doi.org/10.1007/s10758-022-09601-1>
- Smith, H.**, Closser, A. H., Ottmar, E. R., & Chan, J. Y. C. (2022). The impact of algebra worked example presentations on student learning. *Applied Cognitive Psychology*, 1-15. <https://doi.org/10.1002/acp.3925>
- Closser, A. H., Erickson, J. A., **Smith, H.**, Varatharaj, A., & Botelho, A. F. (2022). Blending Learning Analytics and Embodied Design to Model Students' Comprehension of Measurement Using Their Actions, Speech, and Gestures. In Abrahamson, D., Worsley, M., Pardos, Z., Ou, L. (Eds.), *International Journal of Child-Computer Interaction (IJCCI) Special Issue on Learning Analytics of Embodied Design: Enhancing Synergy*, 32, 100391. <https://doi.org/10.1016/j.ijcci.2021.100391>
- Smith, H.**, Harrison, A., Ottmar, E. & Arroyo, I. (2020). Developing math knowledge and computational thinking through game play and design: A professional development program. *Contemporary Issues in Technology and Teacher Education (CITE)*. <https://citejournal.org/volume-20/issue-4-20/mathematics/developing-mathematics-knowledge-and-computational-thinking-through-game-play-and-design-a-professional-development-program/>
- Harrison, A., **Smith, H.**, Hulse, T., & Ottmar, E. (2020). Spacing out!: Manipulating spatial features in mathematical expressions affects performance. *Journal of Numerical Cognition*, 6(2), 186-203. <https://doi.org/10.5964/jnc.v6i2.243>

Book Chapters and Outreach

Chan, J. Y. C., Closser, A. H., Drzewiecki, K. C., Lee, J. E., **Smith, H.**, & Ottmar, E. (2023). Grasping patterns of algebraic understanding: Dynamic technology facilitates learning, research, and teaching in mathematics education. In K. M. Robinson, D. Kotsopoulos, & A. Dubé (Eds), *Mathematical Learning and Cognition in Middle Childhood and Early Adolescence: Integrating Interdisciplinary Research Into Practice*.

Closser, A. H., Chan, J. Y.-C., **Smith, H.**, & Ottmar, E. R. (2022). Perceptual learning in math: Implications for educational research, practice, and technology. Rapid Community Report Series. Digital Promise and the International Society of the Learning Sciences. <https://repository.isls.org/handle/1/7668>

Submitted Manuscripts

Smith, H., Ottmar, E., Ngo, V.*, Closser, A. H., Chan, J. Y.-C., Vanacore, K., & Sales, A. (under revision 1). Adding to the debate: Does immediate or delayed feedback make a difference?

Rostkowski, E*, Rushton, N*, **Smith, H.**, & Shaw, S. T. (under review). Generative AI in the Statistics Classroom: Learning Sciences Recommendations for using ChatGPT to promote GAISE Guidelines. To be submitted to *Teaching Statistics*.

Castro, F., Closser, A. H., Smith, G., **Smith, H.**, Rasul, I., Arroyo, I., & Perez, L. (2023). Defining a computational thinking framework within the WearableLearning platform and curriculum. Manuscript submitted for publication

Manuscripts in Preparation

Smith, H., Berube, M*, Reimer, P. Early Childhood Education Professional Development; Barriers to Participation. Manuscript in Preparation

Smith, H., Berube, M*, Reimer, P. Assessing Preschool Teacher Confidence and Attitudes Toward STEM Through a Professional Development Program. Manuscript in Preparation

Smith, H., Rushton, N^. Exploring College Students Perceptions and Rationale of Computational Thinking Vignettes. Manuscript in Preparation

Rushton, N^., **Smith, H.**, Gender & Technology; the Link Between Student Characteristics and Perceptions of Computational Thinking. Manuscript in Preparation

Smith, H., Ramey, K., Heffernan, N., & Uttal, D. The effects of mental rotation and problem features on geometry performance. Manuscript in Preparation.

Smith, H., Ngo, V., Sales, A., Closser, A. H., Chan, J. Y. C., & Ottmar, E. R. To wait or not to wait: Adding to the debate on immediate vs. delayed feedback. Manuscript in preparation.

Closser, A. H., **Smith, H.**, Chan, J. Y.-C., & Ottmar, E. R. Viewing vs. mirroring: The effects of action and self-explanation in worked examples on algebra learning. Data collection in progress.

Conference Proceedings

*undergraduate student mentee ^high school student mentee

- Wells, M*, Rushton, N*, Perez, L., **Smith, H.** (October, 2024) Qualitatively Evaluating the Role of Gender and Technology in Student Understanding of Computational Thinking. Poster to be included in the Proceedings of the Northeastern Educational Research Association Conference. Trumbull, CT.
- Thomassen, C*, **Smith, H.** (October, 2024) Exploring Factors Related to College Student Mental Health and Access to Resources. Poster to be included in the Proceedings of the Northeastern Educational Research Association Conference. Trumbull, CT.
- Rostkowski, E*, Rushton, N*, Shaw, S., **Smith, H.** (October, 2024) Leveraging AI in the Statistics Classroom: Integrating ChatGPT to Promote GAISE Guidelines. Round table to be included in the Proceedings of the Northeastern Educational Research Association Conference. Trumbull, CT.
- Smith, H.**, Silla, E., Pacheco, P., McReynolds, A., Kohen, I., Berube, M*, Morra, G., Barbieri., C.A., Reimer, P. (October, 2023) Advantages and Implications of Incorporating Qualitative Data in Education Research: Across Contexts. Symposium to be included in the Proceedings of the Northeastern Educational Research Association Conference. Trumbull, CT.
- Reimer, P., **Smith, H.** (June, 2023) Computational Thinking Practices at Play in an Early Childhood Microworld [Short Paper]. To be included in the proceedings for the 2023 Annual Meeting of the International Society of the Learning Sciences (ISLS).
- Closser, A. H., **Smith, H.**, Ottmar, E. & Chan, J. Y.-C. (June, 2023). Designing worked examples for dynamic learning technologies: The effects of action and self-explanation [Poster paper]. To be included in the proceedings for the 2023 Annual Meeting of the International Society of the Learning Sciences (ISLS).
- Closser, A. H., **Smith, H.**, Chan, J. Y.-C. (November, 2022). Students' impressions of equation-solving worked examples in an online environment [Brief Research Report]. In Lischka, A. E., Dyer, E. B., Jones, R. S., Lovett, J. N., Strayer, J., & Drown, S. (Eds.), Proceedings of the Forty-Fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, pp. 1973-1977. Middle Tennessee State University. <https://doi.org/10.51272/pmena.44.2022>
- Rushton, N^., **Smith, H.**, Perez, L., Castro, F., & Smith, G. (October 2022). Using Vignettes to Explore Student Perceptions of Computational Thinking. Included in the Proceedings of the Northeastern Educational Research Association Conference. Trumbull, CT.
- Smith, H.**, Perez, L., & Closser, A. H. (November, 2022). Exploring successful measurement estimation strategies among novice and advanced learners [Poster paper]. To be included in Proceedings of the Forty-Fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Nashville, TN.
- Closser, A. H., **Smith, H.**, Chan, J. Y. C. (November, 2022). Algebra students' impression of equation solving worked examples in an online environment [Brief Research Report]. To be included in Proceedings of the Forty-Fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Nashville, TN.
- Closser, A. H., Chan, J. Y. C., **Smith, H.**, Ottmar, E. (November, 2022). College students' input on the design of worked examples for online environments [Empirical Research Report]. To be included in Proceedings of the Forty-Fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Nashville, TN.

Smith, H., Ngo, V., Sales, A., Closser, A. H., Chan, J. Y. C., & Ottmar, E. (June, 2022). To wait or not to wait: Adding to the debate on immediate versus delayed feedback [Poster paper]. To be included in Proceedings of the 16th International Conference of the Learning Sciences - ICLS 2022. Hiroshima, Japan: International Society of the Learning Sciences.

Smith, H., Ramey, K., Heffernan, N., Uttal, D., (June, 2022) Can mental rotation predict performance in an online geometry assignment? Proceedings of the 15th International Conference of the Learning Sciences

Chan, J. Y. C., **Smith, H.**, Closser, A. H., Drzewiecki, K. C., & Ottmar, E. (2021) Number vs. variable: The effect of symbols on students' math problem solving. In T. Fitch, C. Lamm, H. Leder, K. Teßmar-Raible (Eds), Proceedings of the Forty-Third Annual Meeting of the Cognitive Science Society, pp. 2836-2842. Vienna, Austria: University of Vienna.

Closser, A. H., **Smith, H.**, Chan, J., Trac, C.*, & Ottmar, E. (June, 2021). Worked examples: Do learning and perceived helpfulness align? In de Vries, E., Hod, Y., & Ahn J. (Eds.), Proceedings of the 15th International Conference of the Learning Sciences - ICLS 2021, pp. 879-880. Bochum, Germany: International Society of the Learning Sciences.

Smith, H., Harrison, A., Chan, J. Y. C., & Ottmar, E. (2020). The Effects of Worked Example Formats on Student Learning of Algebra. In A.I. Sacristán, J.C. Cortés-Zavala & P.M. Ruiz-Arias, (Eds.), Mathematics Education Across Cultures: Proceedings of the 42nd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mexico (pp. 1458-1459). PME-NA.
<https://doi.org/10.51272/pmena.42.2020-233>

Smith, H. & Harrison, A. (2020). Working it out: How does the format of worked examples influence learning? Poster paper in Proceedings of the LSGS Conference 2020: Finding Your Place in the Learning Sciences Community, pp. 68-69. [[Proceedings here](#)]

Harrison, A., **Smith, H.**, Botelho, A., Ottmar, E., & Arroyo, I. (June, 2020). *For good measure: Identifying student measurement estimation strategies through actions, language, and gesture*. Poster presented at the 2020 International Conference of the Learning Sciences (virtual).

Organized Conference Workshops and Working Groups

Nathan, M. J., Walkington, C., Closser, A. H., Ottmar, E., Alibali, M. W., & **Smith, H.** (November, 2022). Embodied Mathematical Imagination and Cognition (EMIC) Research Colloquium. To be included in Proceedings of the Forty-Fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Nashville, TN.

Smith, H., Castro, F., Lacera, L.P., Arroyo, I. (2021). The Wearable Learning Cloud Platform. Workshop presented at the Learning Analytics 2021 Conference.

Nathan, M. J., Harrison, A., **Smith, H.**, Ottmar, E., Abrahamson, D., & Williams-Pierce, C. (2020). Embodied Mathematical Imagination and Cognition (EMIC) Working Group. In A.I. Sacristán, J.C. Cortés-Zavala & P.M. Ruiz-Arias, (Eds.), Mathematics Education Across Cultures: Proceedings of the 42nd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Mexico (pp. 166-168). PME-NA.
<https://doi.org/10.51272/pmena.42.2020-12>

Harrison, A., **Smith, H.**, & Tsarava, K. (2020). Defining, measuring, and teaching computational thinking. In Proceedings of the LSGS Conference 2020: Finding Your Place in the Learning Sciences Community, pp. 121-122.

Conference Presentations

*undergraduate student mentee ^high school student mentee

Smith, H., Berube, M., Reimer, P. (June 2024). Bridging the Gap: A Professional Development Program to Enhance Preschool Teachers' Confidence in STEM Education with a Focus on Early Math Skills. Poster accepted for presentation at the 2024 Mathematical Cognition and Learning Society Conference. Washington, D.C.

Chan, J. Y. C., Closser, A. H., Ngo, V., **Smith, H.**, & Ottmar, E. (April, 2022). From performance to perception: A laboratory-based task to detect changes in students' perception of math equivalence in technology interventions [Roundtable Session]. Presented at the 2022 Annual Meeting of the American Educational Research Association (AERA), San Diego, CA. doi: 10.3102/IP.22.1882721

Closser, A. H., **Smith, H.**, Chan, J. Y. C., & Ottmar, E. R. (March, 2022). Adding embodiment to worked examples: Exploring the value of student action and self-explanation. Lightning talk presented at the Mathematical Cognition and Learning Society 2021 Online Conference.

Botelho, A., Chan, J. Y. C., Trac, C.*, Closser, A. H., **Smith, H.**, Drzewiecki, K. C., & Ottmar, E. (July, 2021). State vs. Trait: Examining gaming the system in the context of math perception task. Poster presented at the Annual Meeting of the Cognitive Science Society.

Chan, J. Y. C., Ottmar, E., **Smith, H.**, Harrison, A., Drzewiecki, K. (April, 2021). Effects of numbers vs. variables on students' expression transformation processes and strategies. Lightning talk presented at the Biennial Meeting of the Society for Research in Child Development. Minneapolis, MN.

Smith, H., Behning, C.*, Rushton, N.^, Viramontes, F.,^ *Exploring Education Data Prior to and During the Pandemic* (October, 2021) In proceedings of the 2019 Northeastern Educational Research Association Conference

Harrison, A., **Smith, H.**, Chan, J. Y. C., Trac, C.*, & Ottmar, E. R. (April, 2021). *The effect of worked example presentation on student learning*. Paper accepted for presentation at the 2021 Annual Meeting of the American Educational Research Association, Orlando, Florida.

Arroyo, I., Castro, F., **Smith, H.**, Closser, A. H., & Ottmar, E. R. (April, 2021). *Augmenting embodied mathematics classrooms with mobile tutors* [Roundtable Session]. Accepted for presentation at the 2021 Annual Meeting of the American Educational Research Association, Orlando, Florida.

Arroyo, I., **Smith, H.**, Closser, A. H., & Ottmar, E. R. (April, 2021). *Mobile tutors augment the embodied mathematics classroom* [Poster session]. Accepted for presentation at the 2021 Annual Meeting of the American Educational Research Association, Orlando, Florida.

Smith, H., Harrison, A., Chan, J.Y.C., Ottmar, E. (June, 2020). *Dynamic vs. static: Which worked examples work best?* Poster accepted for presentation at the 2020 Mathematical Cognition and Learning Society Conference. Dublin, Ireland. (Conference Canceled)

Harrison, A., **Smith, H.**, Ottmar, E., Arroyo, I. (June, 2020). *The language of gestures: Developing a novel coding guide*. Poster accepted for presentation at the 2020 Mathematical Cognition and Learning Society Conference. Dublin, Ireland. (Conference Canceled)

Smith, H., Chan, J.Y.C., St.John, J., Ottmar, E., & Arroyo, I. (August, 2020). *Is Bigger Better? Comparing the Effects of Linear Board Games on Children's Numerical Knowledge*. Poster presented at the 2020 Mathematical Learning and Cognition Society Conference. Dublin, Ireland.

Harrison, A., **Smith, H.**, Hulse, T., & Ottmar, E. Spacing out!: (2020) *Manipulating Spatial Features in Math Expressions Affects Performance*. Paper to be presented at the 2020 Annual Meeting at the American Educational Research Association (AERA, conference cancelled).

Smith, H., Harrison, A., Ottmar, E., Arroyo, I. (October, 2019) *Supporting Technology-Augmented Game Creation and Play Through A Teacher Professional Development Program*. In proceedings of the 2019 Northeastern Educational Research Association Conference

Smith, H., Harrison, A., Ottmar, E., & Arroyo, I. (May, 2019). *Quantity and Quality of Gestures are Related to Performance on an Embodied Geometric Estimation Task*. Poster presented at the 2019 Mathematical Cognition and Learning Society Conference, Ottawa, Canada.

Teaching Experience

Assumption University - Visiting Assistant Professor, Adjunct Professor

Courses Taught

- Research Methods in Psychology
- General Psychology
- Psychology Statistics
- Cognitive Development in Childhood
- Perception

Worcester Polytechnic Institute - Adjunct Professor

Asynchronous Courses Taught

- Introduction to Psychology
- Cognitive Psychology

Other Teaching Experience

2022 - 2023 ASPIRE Teaching Fellow | Quinsigamond Community College
Paired with a community college professor

2019 - 2020 Teaching Assistant/Co-Instructor | Worcester Polytechnic Institute
Developmental Psychology

2014 - 2023 Early Childhood Educator | Mansfield Children's Center
Taught children ages 3 months to 12 years

Workshops / Professional Development Instructor

2024 Food for Thought: Embodied Cognition in the College Classroom | Assumption University
Workshop presented through the D'Amour Center for Teaching Excellence

- 2022 Failing to Learn and Learning to Fail | Worcester Polytechnic Institute
Workshop presented to the Women's STEM Leadership Academy and Women's Research and Mentorship Program
- 2021 Basic Statistical Analysis Using JASP | Worcester Polytechnic Institute
Presented to University students, staff and faculty through the Library's Data and Open Science Workshop Week
- 2019 WPI Game Play and Design Professional Development Program
Designed and led 14-week workshop with middle school STEM and Math teachers
- 2018 Children's Numbers Professional Development Workshop
Mansfield Children's Center

Invited Talks

- 2021 Panel Speaker: What happens after a math degree? *UMass Dartmouth*
- 2019 Panel Speaker: AfterMath Symposium Speaker, *UMass Dartmouth*
- 2019 Arts & Sciences Advisory Board Presentation, *Worcester Polytechnic Institute*

Research Mentorship

Graduate Students

Jen St. John, Worcester Polytechnic Institute, 2024
Dissertation Committee: Empowering Teachers, Affecting Students: Moving Research to Practice

Undergraduate Students

Claire Thomassen
Honors Thesis Advisor Assumption University, 2024
1 conference presentation

Madison Wells
Center for Neuroscience Summer Fellowship Advisor, Assumption University, 2024
1 conference presentation, 2 manuscripts in preparation

Madison Berube
Research Assistant Supervisor AIMS Center for Math and Science, 2022-2024
2 conference presentations, 2 manuscripts in preparation

Nellie Rushton
External Research Advisor (Stanford University), AP Research Advisor, Massachusetts Life Sciences Internship Program Supervisor, Research Assistant Supervisor
Submitted 3 conference presentations, 2 journal manuscripts in preparation

Claire Behning, Olivia Bogs, Stephanie Reis, Luisa Perez & Rich Valente
Project Advisor on NSF Grant #2041785: Developing Computational Thinking by Creating Multi-player Physically Active Math Games

Fellowships, Honors and Awards

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| 2024 | Assumption University Honors Summer Fellowship (\$3,500) |
| 2024 | Assumption University Center for Neuroscience Summer Fellowship (\$2,000) |
| 2024 | AIMS Center Senior Research Fellowship (20,000) |
| 2023 | AIMS Center Senior Research Fellowship (20,000) |
| 2023 | WPI Graduate Student Travel Fund (\$750) |
| 2022 | AIMS Center Research Fellowship (\$12,000) |
| 2022 | WPI ASPIRE Fellowship (\$1000) |
| 2022 | Psychology of Mathematics Education Doctoral Consortium |
| 2021 | AIMS Center Research Fellowship (\$10,000) |
| 2021 | WPI Graduate Student Travel Fund (\$500) |
| 2021 | (2x) WPI Women's Research and Mentoring Program Fellowship (\$1500) |
| 2020-2021 | (2x) WPI Women's Young Investigator Fellowship (\$1000) |
| 2020 | Carnegie Mellon Simon Initiative LearnLab Summer School Scholarship |
| 2019 | WPI Graduate Student Travel Fund (\$500) |
| 2018 | NCAA Woman Of the Year Nominee |
| 2018 | UMass Dartmouth Scholar Athlete Award |
| 2017 | UMass Dartmouth Alumni Scholarship (\$3000) |
| 2017 | UMass Dartmouth Professor Louis S.J. & Margaret Simeone Scholarship (\$1500) |
| 2016 | Inducted into the Psi Chi International Honor Society in Psychology |
| 2014 - 2018 | University of Massachusetts Dartmouth Chancellor's List: GPA > 3.8 (7x) |
| 2014 - 2018 | Massachusetts Commonwealth Honors Student |

Service Positions

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| 2024 | Assumption University Psychology: Writing Across the Curriculum Sub-Committee |
| 2023 - present | Co-Chair 2024 Northeastern Educational Research Association Conference |
| 2023 | Graduate Student Issues Committee Member: Northeastern Educational Research Association |
| 2019 - 2023 | Volunteer Judge at the Annual WPI Undergraduate Project Presentation Day |
| 2021 | Volunteer for Touch Tomorrow Science Festival, Worcester Polytechnic Institute |
| 2020 | Project SHORT Mentor |
| 2020 - 2022 | Graduate Student Government Senator |
| 2018, 2019, 2020 | Volunteer judge at the annual Mass Academy High School STEM Fair |
| 2019 | Volunteer at NCTM regional conference |
| 2019 | Led afterschool math game activities at the local Boys & Girls Club |
| 2018 | Worked with students at the Central Community Branch YMCA |
| 2016 - 2018 | Student Athlete Advisory Committee Member |

Professional Service

Ad Hoc Reviewer

Games: Research and Practice | *Contemporary Issues in Teacher Education* | *Games Journal* | *Journal of Mathematical Behavior* | *Cognitive Science Society* | *Learning and Individual Differences Journal* | *Dissertation Research Funding Awards*, *Society for Research in Child Development*

Outreach & Community Engagement

2021 - 2023 Massachusetts Life Sciences Internship High School Student Mentor
2021 - 2023 WPI Women's Research and Mentorship Program Mentor
2021 Women in STEM Leadership Academy Program Developer and Facilitator

Professional Development & Training

2023 APA Teaching Research Excellence: Education, Strategy, and Practice Conference
2023 Understanding the Impact of Executive Functioning and Anxiety Disorders on Assumption Students and Discussing Strategies to Help Our Students Succeed
2023 - 2024 Teaching for Assumption University Mission
2023 Alternative Grading Working Group
2023 Teaching at Assumption University Bootcamp
2022 Equity, Inclusion & Anti Racism for High Quality STEM Learning Workshop
2020 Fundamentals of Scientific Teaching, 5-week online graduate course
2019 Massachusetts Department of Early Education and Care Workshops
2020 Carnegie Mellon Simon Initiative LearnLab Summer School
2019 Northeastern Educational Research Association R workshop
2019 Mathematics Cognition and Learning Society writing workshop
2019 Writing Workshop, Mathematical Cognition and Learning Society

Professional Affiliations

International Society for Learning Sciences, American Educational Research Association, Northeastern Educational Research Association, Math Cognition and Learning Society

Certifications

EEC Early Childhood Teacher Certification

Skills

SPSS, JASP, Open Science Framework, Qualtrics, NVIVO, DeDoose

Last Revised: 9/26/2024