

KENNETH HOLMAN, PH.D.

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CURRICULUM VITAE

Last Update September 10, 2025

VITAE AT A GLANCE

- Ph.D. in Exceptional Student Education
- 14 Years of Teaching Experience (11 in Secondary and 3 in Post-Secondary)
- Teaching Certifications: State of Florida Mathematics Grades 5-9, Social Sciences Grades 6-12, Exceptional Student Education Grades K-12, Autism Spectrum Disorder Endorsement
- 30 Invited International, National, & Regional Presentations
- 12 Publications
- Google Scholar Citations

EDUCATION

Ph.D. University of Central Florida, Orlando, FL.

Dec 2024, Exceptional Student Education

M.Ed. Bethune Cookman University, Daytona Beach, FL

2020, Exceptional Student Education

B.S. University of Central Florida, Orlando, FL

2005, Business Management

PROFESSIONAL AND RESEARCH EXPERIENCE

August 2025 – Present

Clinical Assistant Professor

University of West Georgia

October 2024 – August 2025

Program Specialist, Exceptional Student Education

Anna Williams-Jones, Director

Marion County Public Schools

August 2024 – October 2024

Inclusive Education Services

Graduate Research Assistant

Dr. Jaime Best, Director

University of Central Florida

August 2021 – October 2024

TELEPORTS Doctoral Scholar and Doctoral Assistant

Dr. Matthew Marino, College of Community Innovation and Education
University of Central Florida and North Carolina State University

ModelME

Dr. Jessica Hunt, Dr. Matthew Marino, Dr. Michelle Taub
University of Central Florida and North Carolina State University

FLITE-STEM

Dr. Lisa Dieker, Dr. Rebecca Hines, Dr. Charlie Hughes
University of Kansas and University of Central Florida

Oct 2022 – Oct 2024

IES – Inclusive Education Services

Dr. Jaime Best, Director of IES at the University of Central Florida

July 2023

Policy Internship

Dr. Sarah Powell, Associate Professor at the University of Texas, Austin

October 2021 – January 2022

Project RISE: Recruitment through Interactive and Strategic Enrollment

Dr. Matthew Marino, School of Education and Human Services

August 2021 – May 2023

CIDDL – Center for Innovation, Design, and Digital Learning

Dr. Matthew Marino, Dr. Eleazar “Trey” Vasquez, Dr. James Basham, Dr. Sean Smith
University of Central Florida, University of Kansas

August 2010 - July 2021

Volusia County Schools – Mainland High School

Teacher and Support Facilitation

Daytona Beach, FL

Algebra 1, Algebra 1A/1B, Intensive Algebra, ESE Support Facilitation, A.P.
Economics, Economics, U.S. Government

August 2005 - August 2010

Bank of America

Daytona Beach, FL

Personal Banker, Service Support Specialist, and Teller

PUBLICATIONS

Peer Reviewed: Published or Accepted

Holman, K., Marino, M. T., Vasquez, T., Taub, M., Hunt, J. H., & Tazi, Y. (2025). Artificial intelligence interventions in mathematics education: A systematic literature review. *Insights into Learning Disabilities*, 22(1), 65–91. https://www.ldw-ild.org/images/Holman_et_alpdf.pdf

Hunt, J. H., Taub, M., Marino, M., **Holman, K.**, & Womack-Adams, K. (2025). Increasing student engagement, fraction knowledge, and stem interest through game-based intervention. *Journal of Special Education Technology*. <https://doi.org/10.1177/01626434251314014>

Holman, K., Marino, M. T., Vasquez, T., Taub, M., Hunt, J. H., & Tazi, Y. (2024). Navigating AI-Powered Personalized Learning in Special Education: A Guide for Preservice Teacher Faculty. *Journal of Special Education Preparation*, 4(2), 90-95. <https://doi.org/10.33043/5b2xqcb3>

Holman, K. & Kohnke, S. (2024, February). Melding mindsets: Isolated content, same destination, hidden opportunity. *Constellations: Online STEM Teacher Education Journal*, 1(1). Article 3. <https://stars.library.ucf.edu/constellations/vol1/iss1/3>

Holman, K. (2023). Interventions for Students with Developmental Dyscalculia: A Systematic Literature Review. *Insights into Learning Disabilities*, 20(2), 135–151. <https://eric.ed.gov/?id=EJ1401956>

Hunt, J., Taub, M., Duarte, A., Bentley, B., Womack-Adams, K., Marino, M., **Holman, K.**, & Kuhlman, A. (2023). Elementary teachers' perceptions and enactment of Supplemental, game-enhanced fraction intervention. *Education Sciences*, 13(11), 1071. <https://doi.org/10.3390/educsci13111071>

Hunt, J. H., Taub, M., Marino, M., Duarte, A., Bentley, B., **Holman, K.**, & Kuhlman, A. (2023). Effects of game-enhanced supplemental fraction curriculum on student engagement, fraction knowledge, and stem interest. *Education Sciences*, 13(7), 646. <https://doi.org/10.3390/educsci13070646>

Hunt, J.H., Taub, M., Marino, M., *Duarte, A., Bentley, B., **Holman, K.**, & Banzon, A. (2022). Enhancing engagement and fraction concept knowledge with a universally designed game-based curriculum. *Learning Disabilities: A Contemporary Journal*, 20(1), 77-95. <https://eric.ed.gov/?id=EJ1339498>

Dissertation

Holman, K. (2024, Dec. 15). *Exploring fraction comprehension and interest in elementary education through AI-powered personalized learning* (Doctoral dissertation). University of Central Florida. <https://stars.library.ucf.edu/etd2024/32>

Webinars, Blogs and Other Media

Holman, K. (2024, Jan. 15) Revolutionizing Mathematics Education in K-12 with AI: The Role of ChatGPT. The Center for Innovation, Design, and Digital Learning.

Holman, K. (2023, Feb. 9). Artificial Intelligence: Positives and Negatives in the Mathematics Classroom. The Center for Innovation, Design, and Digital Learning.

Holman, K., Taub, M., & the CIDDL Team. (2022). Learning Sciences and Data in the Classroom. The Center for Innovation, Design, and Digital Learning.

Holman, K. & Patterson, M.S. (2022, May 31). Assistive Technology Solutions to Support Math. The Center for Innovation, Design, and Digital Learning.

Holman, K. (2022, Mar. 15). Supporting Educator Use of Game-Based Learning Environments. The Center for Innovation, Design, and Digital Learning.

Holman, K. (2022, Jan. 26). Choose the right technology: Sometimes the oldies are the goodies!. The Center for Innovation, Design, and Digital Learning.

Manuscripts in Preparation

Holman, K., Marino, M., Vasquez, E., Hunt, J., Taub, M., & Tazi., Y. (2024) Mathbot in Motion: Evaluating the Efficacy of AI-Powered Tools for Enhancing Fraction Comprehension and Situational Interest in Elementary Mathematics

Kohnke, S., **Holman, K.**, Hallett-Nguyen, R., Dieker, L., Hughes., C. (2023) Debriefscape Resource Development

Sulaimon, T., Kohnke, S., & **Holman, K.** (2024) Empowering Special Education with AI: Revolutionizing Intervention Fidelity for Enhanced Outcomes

PRESENTATIONS

International

Holman, K. (2024, July 30). *Dream 2B: Supporting Elementary Mathematics Game-based Learning with UDL* [Asynchronous] UDL-Con: International, Sacramento, CA, United States.

Holman, K., Tazi, Y., & Parsons, C. (2024, June 24). *Unveiling AI Chatbots for Personalized Learning*. International Society for Technology in Education, Denver, Colorado

Hunt, J.H., Taub, M., Marino, M., Coleman, E., **Holman, K.**, & Kuhlman, A. (2024, January). *Effects of game-enhanced curriculum on students' fraction outcomes, engagement, and STEM interest*. Paper presented at the 22nd Annual Hawaii International Conference on Education, Waikoloa, Hawaii.

Hunt, J.H., Marino, M., Taub, M., **Holman, K.**, Womack-Adams, K., Coleman, E., & Kuhlman, A. (2023). *Student engagement, understanding, and STEM interest in a game based supplemental fraction curriculum*. Paper presented at the 44th annual meeting of the North American Chapter of the International Society of the Psychology of Mathematics Education (PME-NA), Reno, NV.

Holman, K., Brewer, J., Hirn, J., Miller, A. (2023, September 27) *Strategies in Action: How Educators and Parents Can Collaborate to Enhance Executive Skills* [Panel] Family Network on Disabilities, Asynchronous Session

Hunt, J., Marino, M., Taub, M., Duarte, A., Bentley, B., Benzoni, A., **Holman, K.** (2023, April 14). *Feasibility of game-enhanced fraction curriculum to enhance conceptual understanding and engagement of diverse students* [Roundtable] American Education Research Association Annual Meeting, Chicago, IL, United States.

Holman, K. (2023, March 14). *Dream 2B: Supporting Inclusive Elementary Math Instruction through Game-based Learning and Universal Design Principles* [Poster presentation] Universal Design for Learning-Implementation and Research Network Summit, Orlando, FL, United States.

Marino, M. T., Hunt, J.H., Taub, M. & **Holman, K.** (2022, April). *Dream2B*. Universal Design for Learning Implementation and Research Network. Annual Summit. Virtual.

Taub, M., **Holman, K.**, Marino, M., Hunt, J. (2022, March 30). *Dream2b* [Presentation]. Universal Design for Learning-Implementation and Research Network Summit, Asynchronous Session.

Wilder, T. L., Patterson, M.S., Tazi, Y., Grays, A., Grace, B., **Holman, K.**, Rujimora, J. & Marino, M. (2022, March 30). *Mapping the future: Teacher preparation across the United States* [Presentation]. Universal Design for Learning-Implementation and Research Network Summit, Asynchronous Session.

National

Hunt, J.H., **Holman, K.**, Bentley, B., & Kuhlman, A. (2023, Oct.) *Supporting Conceptual Knowledge of Fractions Through Game Enhanced STEM Intervention*. National

- Council of Teachers of Mathematics Research Conference (NCTM), Washington, D.C.
- Marino, M., & **Holman, K.** (2024, March 15). *Impacting Engagement, Fraction Concepts, and STEM Interest with Serious Games* [Poster presentation]. Council for Exceptional Children 2023 Convention and Expo, San Antonio, TX, United States.
- Dieker, L., Kohnke, S., Smith, S., & **Holman, K.** (2024, March 15). *STEM Resources for Teachers* [Presentation]. Council for Exceptional Children 2023 Convention and Expo, San Antonio, TX, United States.
- Holman, K.** (2024, March 15). *AI Tools for Math* [Presentation]. Council for Exceptional Children 2023 Convention and Expo, San Antonio, TX, United States.
- Holman, K.**, Naatz, A.J., Merry, K., Waterfield, D., & Williams, T. (2024, Feb 27) *Emerging Innovations in Special Education Technology: A Doctoral Student Symposium* [Webinar]. Center for Innovation, Design, and Digital Learning. <https://www.youtube.com/watch?v=ym--ZP6iXvk>
- Holman, K. (2024, Feb 22) *Dream 2B: Supporting Inclusive Elementary Math Instruction through Game-based Learning and UDL* [Presentation]. Florida Council of Teachers of Mathematics
- Hunt, J.H., **Holman, K.**, Bentley, B., & Kuhlman, A. (2023, Oct.) *Supporting Conceptual Knowledge of Fractions Through Game Enhanced STEM Intervention*. National Council of Teachers of Mathematics Research Conference (NCTM), Washington, D.C.
- Dieker, L., Barrion, N., Wadors, L., Smith, A., Marino, M., Grays, A., **Holman, K.**, Nelson, N., Tyler, N., Fernandez, E., Garilli, A., & Schaldant, M. (2023, March 3). *Program Chair Invited: Office of Special Education National Center Slam: Practical Teacher Tools* [Presentation]. Council for Exceptional Children 2023 Convention and Expo, Louisville, KY, United States.
- Dieker, L., **Holman, K.**, & Kohnke, S. (2023, March 3). *Free, free, free, free, free: Resources for STEM teaching* [Poster presentation]. Council for Exceptional Children 2023 Convention and Expo, Louisville, KY, United States.
- Holman, K. (2023, March 3) *Interventions for Developmental Dyscalculia: A Systematic Literature Review* [Presentation]. Council for Exceptional Children 2023 Convention and Expo, Louisville, KY, United States.
- Holman, K. (2022, Nov. 10) *Interventions for Developmental Dyscalculia: A Systematic Literature Review* [Presentation]. Teacher Education Division of the Council for Exceptional Children. Richmond, VA

Patterson, M.S., **Holman, K.**, & Grace, B. (2022, July 18-24). *Project RISE: An Interactive Map to Support Special Education Teacher Recruitment* [Technology Demonstration]. OSEP Leadership and Project Directors' Conference, Virtual.

State and Local

Holman, K. (2024, June 21) *Exploring Mathbot: Enhancing Fraction Learning with AI* [Presentation]. Florida Council of Teachers of Mathematics, Orlando, FL

Holman, K. (2024, June 21) *Dream 2B: Inclusive Math Fraction Instruction via Game-based Learning* [Presentation]. Florida Council of Teachers of Mathematics, Orlando, FL

Holman, K., & Hirn., J (2024, Feb 22) *Dream 2B: Supporting Inclusive Elementary Math Instruction through Game-based Learning and UDL* [Poster presentation], College of Community Innovation and Education Research Impact Showcase, Orlando, FL

Holman, K. (2023, Jun 16) *Dream 2B: Supporting Inclusive Elementary Math Instruction through Game-based Learning and UDL* [Presentation]. Florida Council of Teachers of Mathematics

Holman, K. (2022, Dec) *Dream 2B: Supporting Inclusive Elementary Math Instruction through Game-based Learning and Universal Design Principles* [Presentation]. Florida Association of Teacher Educators, Daytona Beach, FL

Zaugg, T., **Holman, K.**, & Grays, A. (2022, Dec) *A Quest for Accessible Presentation* [Presentation]. Florida Association of Teacher Educators, Daytona Beach, FL

Holman, K. (2022, Oct. 12) *Developmental Dyscalculia - Systematic Literature Review for Current Available Interventions* [Presentation]. Florida Council for Exceptional Children. Daytona Beach, FL

Holman, K. (2022, March 31). *Interventions for Developmental Dyscalculia: A Literature Review* [Presentation]. Student Scholar Symposium. University of Central Florida.

GRANTS AND FUNDED PROJECTS

Not funded:

Zhong, Y., Hughes, C., Fyall, A., Best, J., Parsons, C., Holman, K., Lopez, M., Tavares, K., & Tkatch, T. (**Holman, K.** – Member of the Grant Writing Team) (2024). *Projects of National Significance: Achieving Economic Mobility*

Taub, M., Hunt, J., Boloni, L., & Holman, K. (2024). (**Holman, K.** – Member of Grant Writing Team). *Technology enhanced learning enabled by partner organizations, research, and teaching success.*

Marino, M., Vazquez, E., & Dieker, L. (2022). (**Holman, K.** – Member of Grant Writing Team). Technology enhanced learning enabled by partner organizations, research, and teaching success: UCF TELEPORTS), Office of Special Education Programs, (CFDA Number: 84.325D), U.S. Department of Education

UNIVERSITY TEACHING AND STUDENT TEACHER COACHING

Fall 2025

ECED 3250: Teaching Elementary Math I

(Undergraduate level, Asynchronous, Instructor of Record)

This course prepares pre-service teachers to design and deliver effective mathematics instruction in elementary classrooms. Emphasis is placed on evidence-based practices, differentiation for diverse learners, and supporting students with disabilities in math learning.

SPED 6706: Special Education in the Regular Classroom

(Graduate level, Asynchronous, Instructor of Record)

This course provides graduate candidates with the knowledge and skills to support students with disabilities in inclusive general education classrooms. Topics include collaboration with colleagues, instructional adaptation, and legal/ethical foundations of special education.

SPED 6767: Methods II – General Curriculum Concentration

(Graduate level, Asynchronous, Instructor of Record)

This advanced methods course equips graduate candidates with strategies to plan, adapt, and evaluate curriculum for students with disabilities in the general education setting. Focus areas include assessment-driven instruction, universal design for learning, and evidence-based teaching practices.

Fall 2024

MHS2331 Career Planning II

(Undergraduate, Synchronous, Co-teaching)

The course aims to prepare students for the transition from campus life to career, ensuring they are well-equipped for inclusive work environments. Utilized a blend of instructional methods, including readings, lectures, and experiential activities, to meet key career readiness competencies as defined by the National Association for Colleges and Employers (NACE).

Spring 2024

Inclusive Education Services

Facilitated a work study program, mentoring a student from Inclusive Education Services (IES) at the University of Central Florida, emphasizing practical skills and academic support twice weekly.

Fall 2023

MHS2331 Career Planning II

(Undergraduate, Synchronous, Co-teaching)

The course aims to prepare students for the transition from campus life to career, ensuring they are well-equipped for inclusive work environments. Utilized a blend of instructional methods, including readings, lectures, and experiential activities, to meet key career readiness competencies as defined by the National Association for Colleges and Employers (NACE).

Summer 2023

EEX4242 Teaching Students with Disabilities in Secondary Settings Session B

(Undergraduate level, Asynchronous, Co-teaching)

This course prepares pre-service teachers in today's secondary classroom, a learning space with diverse learners, including those with disabilities. The course ensures that general education teachers are well-prepared for inclusive settings that meet the UDL standards.

EEX4242 Teaching Students with Disabilities in Secondary Settings Session A

(Undergraduate level, Asynchronous, Co-teaching, Instructor of Record)

Spring 2023

EEX4242 Teaching Students with Disabilities in Secondary Settings

(Undergraduate level, Asynchronous, Co-teaching, Instructor of Record)

EEX4941: Internship I in Exceptional Education

University of Central Florida, Orlando, FL

Teaching Coach for TIR Intern II's at East River High School. Observed classroom lessons, provided mentoring feedback, and met with Supervising Coordinator regarding TIRs progress.

EEX3942: Internship I in Exceptional Education

University of Central Florida, Orlando, FL

Teaching Coach for Student-Teacher-in-Residence (TIR) Intern I's at United Cerebral Palsy (UCP) Bailes (PreK-8) Charter School. Observed classroom lessons, provided mentoring feedback, and met with Supervising Coordinator regarding TIRs progress.

Fall 2022

EEX4242: Teaching Students with Disabilities in Secondary Settings

(Undergraduate level, Asynchronous, Co-teaching, Instructor of Record)

EEX 3241: Methods of Academic Skills for Exceptional Students

(Undergraduate level, Asynchronous, Co-teaching)

Instructed EEX 3241: Methods of Academic Skills for Exceptional Students at the University of Central Florida. The course focused on evidence-based teaching methods and strategies designed to enhance academic outcomes for students with exceptional needs.

SERVICE AND LEADERSHIP

June 2025

Reviewer

Mind, Brain, and Education

March 2024

Reviewer

National Council of Teachers of Mathematics

2022 – 2023

President

Association of Doctoral Scholars in Exceptional Education (ADSEE) President
University of Central Florida, Orlando, FL

June 2023

Reviewer

National Council of Teachers of Mathematics

July 2022, June 2023, & June 2024

Inclusive Education Services

Led and facilitated a three-day camp as part of the University of Central Florida's Inclusive Education Services (IES) program, offering an inclusive, comprehensive college experience for adults with intellectual disabilities.

Jan 2023 – July 2023

Holly Hill School Volunteer afterschool Mathematics Tutoring

Jan 2023

Reviewer

International Society of the Learning Sciences

Nov 2022

Reviewer

University of Central Florida High-Impact Practice Showcase

May 2022

Reviewer

Council for Exceptional Student Education Conference

Aug 2021 – Sept 2023

Down Syndrome Foundation, Orlando, FL

iCan College and Career Program Coordinator

Aug 2010 – Jul 2014

Varsity Swim Coach – Mainland High School, Daytona Beach, FL

SELECTED HONORS AND AWARDS

Feb 2024

University of Central Florida

Affordable Instructional Materials (AIM) Certificate

June 2022

The Central Florida English-Speaking Union Jessie Drey Memorial Scholarship
(\$5,000 for Fall 2022 and \$5,000 for Spring 2023)

April 2022

The Dr. John C. Rawls Scholarship – Florida Credit Union for \$1,000

Sept 2020

Teacher of the Quarter for Mainland High School

PROFESSIONAL MEMBERSHIPS AND CERTIFICATIONS

Current:

Council for Exceptional Children

Teacher Education Division

Division for Research

Florida Council for Exceptional Children

Volusia County Chapter

Florida Council of Teachers of Mathematics

National Council of Teachers of Mathematics (NCTM)

The Science of Math Affiliate

Teaching Licensure:

State of Florida Mathematics Grades 5-9

State of Florida Social Sciences Grades 6-12
State of Florida Exceptional Student Education Grades K-12
State of Florida Autism Spectrum Disorder Endorsement

Past:

American Educational Research Association (AERA)

Association of Mathematics Teacher Educators (AMTE)
Florida Associate of Mathematics Teacher Educators

Florida Association of Teacher Educators (FATE)

**North American Chapter of the International Group for the Psychology of
Mathematics Education (PME-NA)**

The International Society for Technology in Education (ISTE)