

Curriculum Vitae

Thomas F. Hallmark, Ph. D. Student

Professional e-Mail
Ph. D. Student Website
LinkedIn Profile
Research Gate Profile
ORCID Profile

Department of Teaching, Learning, & Culture
School of Education and Human Development
Texas A&M University

Harrington Education Center, Ste 369
540 Ross Street
College Station, TX 77843

OBJECTIVE

Passionate Science, Technology, Engineering, and Mathematics (STEM) educator with two decades of real-world engineering expertise, dedicated to fostering dynamic learning environments through hands-on application and a family-oriented approach. Seeking a challenging academic role to leverage experiential learning and servant leadership in mathematics and engineering education, contributing to an inclusive community of curious, diverse, and non-traditional learners.

ACADEMIC HISTORY

Texas A&M University, College Station, Texas

Doctor of Philosophy in Curriculum and Instruction

May 2027

- *"From Barracks to Binary: AI's Role in Military STEM Education Across Cultures"*
(Pending Proposal Approval)
- Committee Members:
 - Dr. Karen Rambo-Hernández (Co-Chair)
 - Dr. Ali Bicer (Co-Chair)
 - Dr. Jamaal Young (Member)
 - Dr. Tracy Hammond (Member)
- GPR: 3.79

Texas A&M University School of Law, Fort Worth, TX

Master of Legal Studies in Risk Management

May 2022

Tarrant County College, Fort Worth, TX*Associate of Applied Science in Welding Technology*

Dec 2019

The University of Alabama, Tuscaloosa, AL*Master of Business Administration*

May 2005

Texas A&M University*Bachelor of Science in Nuclear Engineering*

May 2003

- Minors: System Safety Engineering
 Mathematics
 Spanish

Tarrant County Junior College*Associate of Arts in General Studies*

May 1999

- Honors: Phi Theta Kappa, Who's Who Among American College Students

RESEARCH INTERESTS

My research focuses on the intersection of artificial intelligence, STEM education, and cross-cultural adaptation, particularly in the context of military personnel and veterans pursuing higher education. Key areas of interest include:

- AI-driven tools for language acquisition and cultural integration in international STEM programs
- The impact of Virtual Reality and AI on Language Immersion and proficiency for non-traditional students
- Cultural adaptation challenges faced by U.S. military veterans in German STEM programs
- Comparative analysis of STEM education practices across U.S. and German universities
- The role of AI in enhancing academic performance and career readiness for military-affiliated students studying abroad

Current projects explore the effectiveness of AI tools like ImmerseMe, Globally AI, and Babbel in facilitating language proficiency and cultural adaptation for military personnel in cross-cultural STEM education settings

PROFESSIONAL EXPERIENCE

Texas A&M University, School of Education and Human Development*Graduate Assistant*

Aug 2023 – May 2025

*Department of Teaching, Learning, & Culture.**Instructor of Record:**MASC-351, Problem Solving in Mathematics (Jan 2024 – May 2024)***College Station Independent School District***Substitute Teacher*

Sep 2022 – May 2025

Texas A&M University, College of Engineering*Program Coordinator, Halliburton Engineering Global Programs*

May 2022 – Sep 2022

Vistra Energy, Luminant Power, Comanche Peak NPP*Instructor, Engineering Training*

Jun 2013 – Apr 2018

Senior Reactor Operator, Operations

Jan 2011 – Jun 2013

System Engineer, Core Performance Engineering

Jul 2008 – Jan 2011

Entergy Operations, Waterford 3 Steam Electric Station*Shift Engineer, Operations*

Jul 2007 – Jul 2008

Entergy Services, Echelon One Nuclear Headquarters*Nuclear Fuels Engineer, Nuclear Fuels Department*

May 2003 – Jul 2007

United States Navy*Machinist Mate, USS Detroit AOE-4*

May 1994 – Sep 1997

United States Army Reserves*Heavy Equipment Operator, 2nd Battalion / 354th Regiment*

Jan 1991 – Mar 1993

PROFESSIONAL DEVELOPMENT

- Academy for Future Faculty (AFF) 2024
 - Associate Fellow
 - Senior Fellow (2025)
 - Graduate Mentoring Academy (GMA) Fellow 2023
 - MAGE Lab Member 2023
 - Research Lab for Dr. Karen Rambo-Hernández
 - Lead Web Development
 - National Academy of Nuclear Training,
 - Institute of Nuclear Power Operations (INPO) Certified Instructor 2013
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QUALIFICATIONS AND SKILLS

- Microsoft Office Suite
- Adobe Creative Cloud Suite
- Computer Programming

Basic	Visual Basic
Fortran 76	Fortran 95
Python	STATA
- Autodesk CAD Programs

AutoCAD	REVIT
Inventor	Fusion360
- Trade Skills
 - Carpentry
 - Heating, Ventilation, & Air Conditioning (HVAC)
 - Universal Freon License (US EPA)
 - Welding (SMAW / GMAW / Flux Core / Tig)
- Bilingual

Spanish (Advanced)	German (Beginner)
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AWARDS AND HONORS

- Who's Who Among American Junior Colleges
- Dean's List
- Phi Theta Kappa Honor Society

PROFESSIONAL ASSOCIATIONS

- American Society of Engineering Education 2024 – Present
- American Education Research Association 2024 – Present
- Research Council on Mathematics Learning 2023 – Present
- National Conference of Mathematical Teachers (NCTM) 2023 – Present
- Women in Science and Engineering (WISE) 2023 – Present
- Student Veterans of America, Texas A&M University Chapter 2020 – Present
- Student Veterans of America, Tarrant County College Chapter 2018 – 2019
- American Welding Society, Member 2018 – 2020
- American Nuclear Society, Member 2000 – 2020
- American Society of Mechanical Engineers, Member 2001 – 2020

LICENSES AND CERTIFICATIONS

- Notary Public Commission Jun 2020 – Jun 2030
 - Engineer-In-Training Apr 2021 – Apr 2029
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PUBLICATIONS AND PRESENTATIONS

JOURNAL PUBLICATIONS

No journal publications to date.

BOOK PUBLICATIONS

No book publications to date.

REVIEW ACTIVITIES FOR ACADEMIC JOURNALS

Reviewer, Research Council on Mathematics Learning, 2024. Blind peer review.

CONFERENCE PAPERS

Hallmark, T. F.; Park, J. L.; Kogut, A. (2025, February) *Integrating Artificial Intelligence in Engineering Education: A Work-in-Progress Systematic Review of Applications and Challenges. Full Paper presented at the ASEE Gulf Southwest Conference 2025, Arlington, TX.* [Retrievable from here.]

Koehler, N.; Gooden, M.; Erdogan, N.; **Hallmark, T. F.;** Rambo-Hernández, K. (2025, March). *Modeling Elementary Science Achievement from Mathematics and Reading Achievement: Pre- and Mid-COVID-19 Cohort Analysis. Poster session presented at the AERA Annual Meeting 2025, Denver, CO.* [Retrievable from here.]

Hallmark, T. F.; *Onkananuwonk, N. (2024, March). NCTM presentations versus NCTM principles and standards: A critical analysis. Poster session presented at the Research Council on Mathematics Learning, Columbia, SC. [Retrievable from here.]*

Young, J.; Thomas, A; Sanders, M; Rivera Rodriguez, E; Gooden, M; Onkananuwonk, N; Hallmark, T. F. (2024, March). Where's the math? A content-analysis of equity and NCTM standards. Poster session presented at the Research Council on Mathematics Learning, Columbia, SC. [Retrievable from here.]

PRESENTATIONS

Hallmark, T. F.; Park, J. L.; Kogut, A. (2025, February) *Integrating Artificial Intelligence in Engineering Education: A Work-in-Progress Systematic Review of Applications and Challenges*. Full Paper presented at the ASEE Gulf Southwest Conference 2025, Arlington, TX.

Koehler, N.; Gooden, M.; Erdogan, N.; Hallmark, T. F.; Rambo-Hernández, K. (2025, March). Modeling Elementary Science Achievement from Mathematics and Reading Achievement: Pre- and Mid-COVID-19 Cohort Analysis. Poster session presented at the AERA Annual Meeting 2025, Denver, CO.

Rambo-Hernández, K., Hebda, M., Brigandi, C., Hallmark, T. F., Yuan, J. (2025, May). Identifying mathematical talent in rural primary school contexts. The 2024 Wallace Research Symposium on Talent Development. University of Connecticut, Storrs, CT.

Hallmark, T. F. (2024, April). Guest Lecturer. *From Discovery to Design: Teaching the Roles of Science and Engineering in the Classroom*. Presented lecture to the *Inquiry in Life & Earth Science (MASC-420)* teacher education class. Texas A&M University, College Station, TX.

Young, J.; Hallmark, T. F. (2024, March). Where's the math? A content analysis of equity and NCTM standards. Poster session presented at the Research Council on Mathematics Learning, Columbia, SC.

Hallmark, T. F.; *Onkananuwonk, N. (2024, March). NCTM presentations versus NCTM principles and standards: A critical analysis*. Presentation at conference session presented at the Student Research Week 2024 Conference, "Ignite Discovery". Texas A&M University, College Station, TX

PROJECTS

Identifying mathematical talent in rural primary school contexts. Dr. Abiola Akanmu (PI), Dr. Karen Rambo-Hernández (Co-PI), Collaborators: Hebda, M., Brigandi, C., Hallmark, T. F., Yuan, J. National Science Foundation (Grant Number), January 2019 – June 2024.

Veteran Success in STEM: An Analysis of Veteran Student Performance in STEM Education. Hallmark, T. F. Teaching-as-Research Scholar, August 2024 – May 2026

Integrating Artificial Intelligence in Engineering Education: A Systematic Review of Applications and Challenges. Hallmark, T. F. Aggie Research Program, January 2025 – May 2026

GRANTS AND SCHOLARSHIPS

Lott-Sadow-Cleveland Scholarship	2024
Award Amount: \$2,500	
Awarded support for veteran education	
Veteran Resource & Support Center Grant	2024
Award Amount: \$2,500	
Secured funding for developing veteran support programs	
Galloway 29 Veteran Freedom II Grant	2024
Award Amount: \$2,500	
Grant awarded for freedom and well-being initiatives for veterans	

LEADERSHIP AND SERVICE

LEADERSHIP

Co-Director	AY 2024
Executive Committee Member CIRTL@TAMU Academy for Future Faculty	AY 2025
Student President Department of Teaching, Learning, and Culture Graduate Student Association	AY 2024-2025
Secretary College of Education and Human Development Graduate Student Associations Council	AY 2024-2025
Graduate Student Representative College of Education and Human Development Dean's Budget Council	AY 2024-2025
Officer Student Veterans of America Texas A&M University Chapter	AY 2024-2025
First-Year Ph.D. Student Representative Department of Teaching, Learning, and Culture Graduate Student Association	AY 2023-2024

SERVICE

Volunteer, <i>Texas A&M University Mentoring Up</i>	2025
Officer, <i>Texas A&M University Student Veterans of America</i>	2025

Judge, <i>College of Education and Human Development Science Fair</i>	2024
Instructor, <i>Texas A&M University Graduate Mentoring Academy</i>	2024
Volunteer, <i>Texas A&M University Mentoring Up</i>	2024
Judge, <i>Texas Junior Science and Humanities Symposium</i>	2024
Volunteer, <i>Physics & Engineering Festival (Dr. Tatiana Erukhimova)</i>	2024
Volunteer, <i>Our Beautiful Savior Lutheran Church Groundskeeper</i>	2023-2024
Volunteer, <i>Our Beautiful Savior Lutheran Church College Outreach Service</i>	2023-2024
Volunteer, <i>Expanding Your Horizons STEM Seminar (Dr. Tatiana Erukhimova)</i>	2023
Judge, <i>Texas Junior Science and Humanities Symposium</i>	2023