

# Nathan A. Hawk, Ph.D. | Clinical Assistant Professor

Texas A&M University, *Department of Teaching, Learning and Culture*

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## Education

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**Doctor of Philosophy in Educational Studies** August 2021

Specialization in Educational Technology  
The Ohio State University, Columbus, OH

**Dissertation title:** The Impact of Student Self-beliefs and Learning Behaviors on Mathematics Achievement for Nontraditional Students in an Online Charter High School

**Advisor:** Kui Xie

**Master of Arts in Education and Human Development** May 2013

Concentration in Educational Technology Leadership  
The George Washington University, Washington D.C

**Bachelor of Arts in Mathematics** May 2005

Minors: Secondary Education and Spanish  
Carthage College, Kenosha, WI

## Credentials

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**Ohio Professional Teacher License (5 year)** July 2022-June 2027

7th-12th grade Integrated Mathematics

**Association of College and University Educators** May 2022

Microcredential in Inclusive Teaching for Equitable Learning

**Association of College and University Educators** May 2023

Microcredential in Designing Learner-Centered and Equitable Courses

**International Society for Technology in Education** May 2024-May 2027

ISTE Certified Educator

**Association of College and University Educators** May 2025 (anticipated)

Credential in Effective College Instruction

## Awards

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- o 2024: American Educational Research Association (AERA) Best Proposal Reviewer Award in Special Interest Group-Technology as an Agent of Change in Teaching and Learning

- o 2023-2024: School of Education and Human Development (Texas A&M University) Student Impact Grant: \$3782.00
- o 2022-2023: The Innovation and Design for Exploration and Analysis in Teaching Excellence (IDEATE) Faculty Fellow (Center of Teaching Excellence at Texas A&M University): \$8625.00
- o 2021: American Educational Research Association (AERA) Division C Graduate Student Seminar: Mentee (Mentor: Stephen Aguillar)
- o 2019 American Educational Research Association (AERA) Best Paper Award Winner and Nominee in Special Interest Group-Technology as an Agent of Change in Teaching and Learning  
 Nelson, M.J., & **Hawk, N.A.** (2019, April). *The Impact of Field Experiences on Prospective Preservice Teachers' Technology Integration Beliefs and Intentions*. Paper presented at the meeting of the American Educational Research Association, Toronto, CA.
- o 2018 National Consortium for Instruction and Cognition: Richard C. Anderson Graduate Student Research Award (finalist)  
**Hawk, N.A.**, Vongkulluksn, V.W., & Xie, K. (2018, April). *Value Beliefs Profiles and Teachers' Technology Integration Practices*. Paper presented at the meeting of the National Consortium of Instruction and Cognition, New York, NY.
- o 2017 American Educational Research Association (AERA) Special Interest Group: Design and Technology Early Career Mentoring Program: Mentee (Mentor: Xun Ge)
- o 2013: Recipient of the The Graduate School of Education and Human Development (George Washington University, Department of Educational Leadership) Jere Trout Memorial Award for Excellence in Educational Technology Leadership

## Teaching

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### College Teaching Experience

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**Texas A&M University**, College Station, TX

*Clinical Assistant Professor in Technology and Teacher Education*, July 2021-June 2024

*Clinical Assistant Professor in STEM*, July 2024-present

Lead Faculty for EDCI 365 Technology in Classrooms

- Lead Faculty for EDCI 644 Curriculum Development
- Courses taught
  - o EDCI 365: Technology in Classrooms: multiple semesters
  - o TEED 682: Seminar: Spring 2022, Fall 2022
  - o EDCI 644: Curriculum Development: multiple semesters
  - o EDCI 645: Society and Education in World Perspective: Spring 2023
  - o EDCI 673: Analysis of Teaching Behavior: Summer 2023
  - o FYEX 101 (Hullabaloo U): Fall 2022, Fall 2023

#### Leveraging Digital Learning Tools: Technology in Classrooms Showcase (LDLT Showcase)

*Organizer/ Coordinator: March 2024-present*

- coordinate and manage each semester a showcase event for students in EDCI 365
- enrolled students publicly present a collaborative presentation to peers, faculty, staff and local educators
- invite local educators to serve on a teacher panel
- invited an international educational technology leader as keynote speaker for the inaugural event
- To date, the event has involved in a collaborative authentic experience

- preservice teachers presenters: 211
- University faculty/staff/graduate students: 16
- local educators: 14
- districts: 3

### **The Innovation and Design for Exploration and Analysis in Teaching Excellence (IDEATE)**

*Member and researcher, March 2022-present*

- engaged with an interdisciplinary community of faculty, postdoctoral researchers, and graduate students with interest in design-based research for refining teaching practices at the postsecondary level.
- Participated in monthly meetings to discuss teaching practices
- conducted design-based research in the scholarship of teaching and learning within the course EDCI 365 in order to iteratively improve course development and implementation

**The Ohio State University**, Columbus, OH

*Lecturer, Keys to Success for Online Learners*, Spring 2017 Semester Session 2; Spring 2018 Semester Session 2

### **K-12 Teaching Experience**

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**Career Prep High Schools-Central High School**, Columbus, OH

*Mathematics Teacher*, July 2020-June 2021

- Delivered standards-based individualized instruction for high school non-traditional, credit recovery students
- Procured and curated digital-based learning tools across the school site to assist in delivering remote learning during temporary distance learning conducted at the school
- Maintained and tracked student curriculum progress, communicating and helping to advise students on their goals and progress
- As a teacher academic and instructional technology leader, facilitated teacher-based teams monthly professional development regarding effective use of technology in teaching
- Coached district teachers on the effective integration of digital technology tools in classroom

**Townsend Community School**, Castalia, OH

*High School Math Instructor*, July 2013 to June 2020

- Provide individualized tutoring to students in all subject areas, primarily in mathematics
- Communicate weekly with all students regarding their academic progress and goals
- Maintain accurate and up to date attendance records, using FileMaker Pro and Microsoft Excel programs
- Coordinate remotely to design and operate the school's procedures and attendance lists for the semiannual state standardized testing
- Integrate relevant educational technologies to assist students, both remotely and in person with their courses

**London Academy**, London, OH

*High School Math Teacher/Coach*, July 2009 to July 2013

- Provide individualized tutoring to students in all subject areas, primarily in mathematics
- Communicate weekly with all students regarding their academic progress and goals





**Hawk, N.A.**, Bartle, G., & Romine, M. (2012). The living labs: Innovation in real life settings. *Quarterly Review of Distance Education*, 13(4), 225-231.

### **Presentations at State, National and International Conferences**

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**Hawk, N.A.**, Mohammed, A., Ishio, J., Robbins, J., & Barth, M. *Experiences with authentic audiences*. Paper submitted to the Annual Meeting of the International Society of the Learning Sciences, Helsinki, Finland.

**\*Hawk, N.A.**, & Hicks, E. (2025, February). CAMPing and SAMR: Preservice teachers' authentic course project experiences. Paper presented at the Annual Convention of the Texas Computer Educators Association, Austin, Texas.

**Hawk, N.A.** (2024, October). *Engaging in AI-enhanced Reflective Practices with Mirror Talk*. Paper presented at the convention of the Association for Educational Communications and Technology, Kansas City, MO.

Kipp, A., **Hawk, N.A.**, & Perez, G. (2024, March). Algorithm alleys: Strategies to elevate Science and Engineering Practices using ChatGPT. Presentation presented at the National Conference of the National Science Teaching Association. Denver, CO.

**\*Ali, S.**, & **Hawk, N.A.** (2023, March). Examining In-service Teachers' Perception of TPACK in Culturally Diverse Classrooms: A Mixed-Method Study Introduction. Presentation presented at the annual conference of the Society for Information Technology & Teacher Education. New Orleans, LA.

**Hawk, N.A.**, & Shaffner, S. (2023, February). Digital curation: Creating collaboration and classroom community with Wakelet. Presentation presented at the annual convention of the Texas Computer Education Association. San Antonio, TX

**Hawk, N.A.**, He, J., Xie, K. (2022, October). *Communities of Support: Development of a Comprehensive Framework of Student Engagement in K-12 Virtual Learning*. Paper presented at the convention of the Association for Educational Communications and Technology, Las Vegas, NV.

Bowman, M.A., Xie, K., **Hawk, N.A.** (2022, October). *Digital Curriculum in the Mathematics Classroom: A Framework for Supporting Pre-Service Teachers*. Paper presented at the convention of the Association for Educational Communications and Technology, Las Vegas, NV.

**Hawk, N.A.**, & Xie, K. (2022, April). *At-Risk Student Self-Beliefs, Learning Behaviors and Mathematics Achievement in an Online Charter High School*. Paper presented at the meeting of the American Educational Research Association, San Diego, CA.

**Hawk, N.A.**, Bowman, M.A., & Xie, K. (2021, November). *Theory-based intervention framework to improve mathematics teachers' motivation to engage in online professional development*. Paper presented at the convention of the Association for Educational Communications and Technology, Chicago, IL.

Xie, K., Cheng, S., Bowman, M., Vongkulluksn, V., Nelson, M.J., Jiang, Z., Lu, L., & **Hawk, N.A.** (2021, November). *Teacher value beliefs in technology integration: What do we learn from research and where do we go from here?* Panel session presented at the convention of the Association for Educational Communications and Technology, Chicago, IL.

- Hawk, N.A.,** & Nelson, M.J. (2021, April). *Field Observations' Impact on Preservice Teachers' Perceptions of Effective Teaching with Technology: A Person-Centered Investigation*. Paper presented at the meeting of the American Educational Research Association, Orlando, FL.
- Shaffner, S., & **Hawk, N.A.** (2021, February). *Student progress monitoring: "Closing the gap" with dynamic digital assessments*. Paper presented at the Ohio Educational Technology Conference, Columbus, OH.
- Hawk, N.A.,** Shortt, M, & Xie, K (2020, April). *The Influence of School Safety Perceptions on Psychosocial Factors and Belongingness*. Paper presented at the meeting of the American Educational Research Association, San Francisco, CA (Conference Cancelled).
- Nelson, M.J., & **Hawk, N.A.** (2019, October). *The Role of Observations of Technology Integration in Future Teachers' Perceptions of What Makes a Good Teacher*. Paper presented at the convention of the Association for Educational Communications and Technology, Las Vegas, NV.
- Nelson, M.J., & **Hawk, N.A.** (2019, April). *The Impact of Field Experiences on Prospective Preservice Teachers' Technology Integration Beliefs and Intentions*. Paper presented at the meeting of the American Educational Research Association, Toronto, CA. (Best Paper Award Winner)
- Hawk, N.A.,** Vongkulluksn, V.W., & Xie, K. (2019, April). *Individual and Contextual Factors Influence on Technology Use for Cognitive Tasks Across Content Areas*. Paper presented at the meeting of the American Educational Research Association, Toronto, CA.
- Vongkulluksn, V.W., Xie, K., & **Hawk, N.A.** (2019, April). *Teachers' Value Beliefs Profiles: Antecedents and Associations with Technology Integration Practices*. Paper presented at the meeting of the American Educational Research Association, Toronto, CA.
- Hawk, N.A.** (2019, February). *Individual and Contextual Factors Influence on Technology Use for Cognitive Tasks Across Content Area*. Oral Presentation presented at The Ohio State University College of Education and Human Ecology Research Forum
- Vongkulluksn, V.W., Xie, K., & **Hawk, N.A.** (2018, November). *Middle School Students' Technology Use and Its Relationship with Math Value Beliefs and Achievement*. Paper accepted at the conference of the North American Chapter of the International Group for the Psychology of Mathematics Education Greenville, SC.
- Hawk, N.A.,** Vongkulluksn, V.W., & Xie, K. (2018, April). *Value Beliefs Profiles and Teachers' Technology Integration Practices*. Paper presented at the meeting of the National Consortium of Instruction and Cognition, New York, NY.
- Hawk, N.A.** (2018, February). *Studying at risk students' achievement in nontraditional school settings and the role of self regulation, engagement, and technology*. Proposed Study Paper presented at The Ohio State University College of Education and Human Ecology Research Forum
- Hawk, N.A.,** Lu, L., Kim, M, & Xie, K. (2017, April). *Evaluating Technology Professional Development on Teachers' TPACK, Technology Beliefs and Leadership*. Paper presented at the meeting of the American Educational Research Association, San Antonio, TX.

### **Grant Awards (accepted and in review)**

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2025: submitted (principal investigator): College of Education and Human Development from Texas A&M University: Teaching Excellence Grant: \$14981.50

2023: Recipient (principal investigator): School of Education and Human Development from Texas A&M University: Student Impact Grant: \$3782.00

2020: Recipient (co-investigator): Alumni Grants for Graduate Research and Scholarship from The Ohio State University Graduate School: Dissertation Research Grant: \$2000.00

## Service

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### Professional Service

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#### University, School and Departmental Service:

- Program Coordinator, Department of Teaching, Learning and Culture Undergraduate Peer Mentors in Technology (2021-present)
- Interdepartmental Curriculum Enhancement Committee: Raise Your Hand Texas WestEd Subcommittee (Technology and Teacher Education program representative): 2021-2022
- Member: Learning, Design and Technology group (School of Education and Human Development): working committee: 2022-present
- Member: Department of Teaching, Learning and Culture (Texas A&M University) Ad hoc committee-Review and Promotion Guidelines for Lecturers (department service): 2022
- Nonvoting participant: Department of Teaching, Learning and Culture Undergraduate Committee (2021-2022)
- Department of Teaching, Learning and Culture (Texas A&M University) Clinical A1 Evaluation Committee (2023-2024 Academic Year)
- College of Education and Human Development (Texas A&M University): Distance Education Committee, Member (2024-present)

#### External Service:

- Association for Educational Communications and Technology (AECT) Treasurer (November 2023-present)

#### Peer Reviewer:

- College of Education and Human Ecology, The Ohio State University, undergraduate scholarship reviewer
- American Educational Research Association: 2018, 2019, 2020, 2021, 2022, 2023, 2024 Annual Meeting Proposal Peer Reviewer for the following Special Interest Groups
  - Instructional Technology
  - Technology as an Agent of Change in Teaching and Learning
  - Charters and School Choice
- Association for Educational Communications and Technology, 2022, 2023 Annual Convention Proposal Peer Reviewer
- Academic Journals:
  - *Education and Information Technologies*
  - *Internet and Higher Education*
  - *Journal of Computer Assisted Learning*

- o *Journal of Educational Computing and Research*
- o *Journal of Teacher Education*
- o *Teaching and Teacher Education*
- o *Technology, Pedagogy, and Education*

### **Review Editor**

- o *Frontiers in Education*

### **Session Chair**

- o 2018 American Educational Research Association (AERA) Annual Meeting: Session Chair: Title: Professional Learning Experiences for Mathematics Teaching, Division K
- o 2019 American Educational Research Association (AERA) Annual Meeting Session Chair: Title: Designing for Learning in Multimedia and Virtual Environments, Technology, Instruction, Cognition & Learning Special Interest Group
- o 2021 American Educational Research Association (AERA) Annual Meeting Session Chair: Title: Identifying and Assessing Teachers' Technology Integration Beliefs, Knowledge, and Competence, Technology as an Agent in Teaching and Learning Special Interest Group

### **Other Service**

- o Former Treasurer, Educational Technology Graduate Student Council, The Ohio State University, College of Education and Human Ecology
- o Ohio Educational Technology Conference: volunteer (multiple years)
- o Nominee: American Educational Research Association (AERA) Graduate Student Council Web Secretary (2019)

### **Professional Membership**

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- o Pi Mu Epsilon, College Mathematics Honor Society
- o Alpha Chi, National College Honor Society
- o American Educational Research Association: Division C; Special Interest Groups: Instructional Technology; Technology as an Agent of Change for Teaching and Learning
- o National Consortium for Instruction and Cognition (NCIC)
- o Association for Educational Communications and Technology
- o Texas Computer Educators Association
- o International Society for Technology in Education

### **Community Service**

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**Saint Thomas Early Learning Center**, College Station, TX

*Board Trustee*, September 2023-current

**Franklin County Board of Elections**, Columbus, OH

*2020 General Election Precinct Election Official: Voting Location Deputy*, November 2020

**Westerville Community Bands**, Westerville, OH

*Executive Board Member and Volunteer Treasurer*, April 2007 to August 2015

- o Forecast annual operating expenses and contributions to the 501(c)3 organization
- o Developed new operating policies, including monthly reports, contribution letters, and new technology
- o Designed and developed screencast to instruct members and community at large regarding contribution process
- o Administer all invoice payments, report annually to IRS and catalog each new contribution
- o Plan, along with the organization's financial advisor, the health of our portfolio annually

**Westerville Community Concert Band, Westerville, OH**

*Member, July 2006-July 2015*

**Scioto Valley Brass and Percussion Company, Dublin, OH**

*Member, January 2007-July 2015*

**Carthage College, Kenosha, WI**

*Tutor, September 2003 to May 2005*

- o Tutored a graduate student of foreign citizenship in English written and oral skills
- o Fostered improvement in clarity of overall written and oral presentation, preparing constructive comments for each written assignment
- o Reflected on each session in a written statement discussing the session and its accomplishments

**Indian Trail Academy, Kenosha, WI**

*Volunteer Tutor, September 2001 to May 2002*

- o Assisted an English as a Second Language (ESL) student in communicating appropriately and effectively in English
- o Delegated clear instructions and provided constructive criticism on the student's projects and homework to improve clarity and quality of work

**International Service**

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**Carthage College, Ometepe, Nicaragua**

*Volunteer Service, Language Interpreter, January 2003*

- o Facilitated language interpretation for other peers and conducted two interviews (in Spanish) with local citizens of the island
- o Assisted local workers with the construction of sustainable water project by completing a cistern
- o Maintained and improved transportation access by maintaining and improving the local roads on Ometepe
- o Provided basic medical supplies to three or more local medical clinics on the remote island of Ometepe

**Other Skills**

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**Technology Integration Skills**

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Microsoft Office	Geometer's Sketchpad	Graphing Calculators	Google Apps
SPSS	Mobile Devices	HLM	Mplus
Zoom	Google Classroom	Canvas	STATA

**Skills and Certifications**

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Computer: Microsoft Word, Excel  
Languages: Spanish-Limited Working Proficiency  
Certified OSU Campus Suicide Prevention Gatekeeper  
Google Certified Educator: Level 1  
Wakelet Community Leader