Luke Ziegler, Ph.D.
Clinical Assistant Professor
Department of Educational Technology & Foundations
University of West Georgia
lziegler@westga.edu

Education

Ph.D.   Department of Learning Sciences   2020-2024
Instructional Technology
Georgia State University
Atlanta, Georgia
Advisor: Jonathan D. Cohen, Ph.D.
Dissertation: Instructional Technology and Culturally
Responsive Teaching for American Indian Students

Ed.S.   School of Instructional Technology and Innovation   2019-2020
Instructional Technology
Kennesaw State University
Kennesaw, Georgia

M.Ed.   Faculty of Education   2014-2015
Generalist Educational Studies
University of Hong Kong
Hong Kong, China

B.M.   School of Music   2008-2012
Music Industry
Middle Tennessee State University
Murfreesboro, Tennessee

Professional Experience

University of West Georgia - Carrollton, Georgia - 2024-pres.
Clinical Assistant Professor
Department of Educational Technology & Foundations
- Courses Taught:
    - MEDT 7468: Instructional Multimedia Design & Development
    - MEDT 7485: Generative AI in P12 Settings
    - MEDT 7476: Assessing Learning in Technology-Enhanced Instruction
- Courses Designed:
    - MEDT 7468: Instructional Multimedia Design & Development
    - MEDT 7485: Generative AI in P12 Settings
- Course Leader for MEDT 7468 & MEDT 7476

- Georgia's BEST Instructional Support Mentor (ISM)
    - MEDT 7468: Instructional Multimedia Design & Development
    - MEDT 7476: Assessing Learning in Technology-Enhanced Instruction
    - MEDT 7464: Designing Technology-Enhanced Instruction
- Georgia's BEST Course Reviewer
    - ECED 7266: The Young Child: Home and Community
      READ 7241: TESOL: Methods, Materials, and Assessment through Clinical Experience
    - EDLE 7400: Leadership for Student Learning
    - EDLE 7500: School and Community Engagement

University of West Georgia - Carrollton, Georgia - 2023-2024
Limited-Term Clinical Professor
Department of Educational Technology & Foundations
- Courses Taught:
    - MEDT 7468: Instructional Multimedia Design & Development
    - MEDT 7476: Assessing Learning in Technology-Enhanced Instruction

Kennesaw State University – Kennesaw, Georgia - 2023-2023
Part-Time Instructor
School of Instructional Technology & Innovation
- Courses Taught:
    - ITEC 7430: Digital Tools for Learning

Georgia State University - Atlanta, Georgia - 2020-2023
Graduate Teaching and Research Assistant & Course Design Team Partner
Department of Learning Sciences
- Courses Taught:
    - LT 7777: Inventing to Learn: Teaching and Learning with Maker Technologies
        - LT 7777 is an innovative maker-centered course for undergraduate & graduate students to demonstrate the application and impact of maker technologies and principles

Kennesaw State University – Kennesaw, Georgia - 2018-2023
iTeach Coordinator
School of Instructional Technology & Innovation
- Organized and facilitated Maker Education/STEM efforts across all iTeach contracts to reach students and teachers in metro Atlanta through professional development, coaching, and effective annual planning and resource allocation

Lancaster Christian Academy - Smyrna, Tennessee - 2015-17
History Teacher Grades 9-12

- Designed and taught curriculum focused on US and World History for 100 high school students and strengthened foreign exchange student programming through hospitality and excursions

Eureka Language Services - Hong Kong, China - 2014-2015
Native English Teacher
- Expanded 300+ students' English proficiency through teaching lessons and activities

TLC International School - Dongguan, China - 2013-2014
5th Grade Teacher/Music Teacher
- Classroom teacher for 20 5th-grade English language learners with a 100% passing rate for end-of-year testing by teaching science and language arts
- Organized 5th-12th grade Christmas performance for 250 attendees by rehearsing and teaching music repertoire

Awards and Honors

2025   Outstanding Paper Award, Society for Information Technology & Teacher Education

2024   Leading the Pack – Focused on the Future, College of Education, University of West Georgia

2021   Outstanding Presentation Award, Society for Information Technology & Teacher Education

Scholarship and Professional Development

Peer Reviewed Publications

Ziegler, L., Arrington, L., Arslan, O., Lee, S., & Hampton, J. (2025). Designing a course to support P12 educators in using GenAI: A design case informed by ChatGPT. *Journal of Applied Instructional Design*, 14(3), 50-68. https://jaid.edtechbooks.org/jaid_14_3/zqjhpdvrsl

Cohen, J. D., Martin, L., & **Ziegler, L.** (2024). An instructional design for maker education courses in teacher preparation programs. *International Journal of Designs for Learning, 15*(2), 103-114. https://doi.org/10.14434/ijdl.v15i2.36128.

Peer Reviewed Book Chapters

Ziegler, L. & Martin, L. (2024). Experiences of teaching Native science during an

Indigenous virtual STEM camp. In Blankenship, R.J., & Cherner, T. (Eds). (2024). *Research Highlights in Technology and Teacher Education Special Edition*. Association for the Advancement of Computing in Education (AACE).

Refereed Conference Proceedings

Blankenship, R., War, M., Vasconcelos, L., Morrison, L., Chatterjee, S., Peel, A., **Ziegler, L**., Solano, G. & Watson, A. (2025). Research Highlights in Technology and Teacher Education (RHTTE) 35th Anniversary Edition - A Symposium Sharing the Advancing and Innovative Research of Emerging Scholars. In R. Jake Cohen (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2687-2692). Orlando, FL, United States: Association for the Advancement of Computing in Education (AACE).

Ziegler, L. & Martin, L. (2023). The iTeach MakerBus: Lessons learned from designing and implementing a mobile makerspace. In E. Langran (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1628-1630). New Orleans, LA, United States: Association for the Advancement of Computing in Education (AACE).

Ziegler, L., Martin, L. (2022). MakerTube-Inspiring students to make at home during COVID-19 school closures. *Proceedings of International Symposium for Academic Makerspaces*; Atlanta, Georgia, United States: Higher Education Makerspaces Initiatives (HEMI).

Ziegler, L. & Martin, L. (2022). The iTeach MakerBus: A mobile makerspace equipped for access. In L. Langran & D. Henriksen (Eds.), *Proceedings of SITE Interactive Conference* (pp. 350-352). Online: Association for the Advancement of Computing in Education (AACE).

Martin, L., **Ziegler, L.** & Cohen, J.D., (2022). What are you making in your virtual space? A mixed-methods study of how media specialists are implementing virtual maker-centered learning during 2020 pandemic closures. In E. Langran (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1487-1495). San Diego, CA, United States: Association for the Advancement of Computing in Education (AACE).

Martin, L., Cohen, J. D., & **Ziegler, L**., (2021). Student experience of an online maker course during the COVID-19 pandemic: A case study. *Proceedings of Association For Educational Communications & Technology 2021*. Columbus, OH: Association For Educational Communications & Technology (AECT).

Ziegler, L., Martin, L., & Cohen, J.D., (2021). Teacher perceptions of Native science during an Indigenous virtual STEM camp. In E. Langran & D. Rutledge (Eds.), *Proceedings of SITE Interactive Conference* (pp. 79-84). Online: Association for the Advancement of Computing in Education (AACE).

Publications In Preparation

Ziegler, L., Darling-Aduana, J., & Cohen, J.D., Instructional Technology and Culturally Responsive Teaching for American Indian Students. *Educational Technology Research and Development.* In preparation.

Ziegler, L. & Cohen, J.D., A Systematic Review of Instructional Technology and Culturally Responsive Teaching for American Indian Students. *Journal of American Indian Education.* In preparation.

Conference Presentations

Harron, J., Jin, Y., **Ziegler, L**., & Hillen, A. (2025, April 23-27). *Making Math Tangible: Designing and Creating Digitally Fabricated Math Tools for Standards-based K-12 Contexts* [Poster session]. American Education Research Association, Denver, CO, United States.

Ziegler, L., Darling-Aduana, J., & Cohen, J. D. (2025, March 17-21). *Instructional Technology and Culturally Responsive Teaching for American Indian and Alaska Native Students* [Full Paper session]. Society for Information Technology & Teacher Education International Conference, Orlando, FL, United States.

Ziegler, L., Arrington, L., Arslan, A., Hampton, J., & Lee, S., (2025, March 17-21). *GenAI for P12 Educators: A Design Case* [Full Paper session]. Society for Information Technology & Teacher Education International Conference, Orlando, FL, United States.

Blankenship, R., War, M., Vasconcelos, L., Morrison, L., Chatterjee, S., Peel, A., **Ziegler, L.**, Solano, G., & Watson, A. (2025, March 17-21). *Research Highlights in Technology and Teacher Education (RHTTE) 35th Anniversary Edition - A Symposium Sharing the Advancing and Innovative Research of Emerging Scholars* [Symposium] Society for Information Technology & Teacher Education International Conference, Orlando, FL, United States.

Wilcox, A., Lee, S., & **Ziegler, L**. (2024, November 7). *Engaging students with technology: Favorite tools and strategies from the UWG faculty.* Georgia Education Technology Conference, Atlanta, GA, United States.

Ziegler, L. (2024, May 14). *Parts, Purposes, & Complexities* [Ten Talk]. Innovations in Pedagogy Conference, Carrollton, GA, United States.

Harron, J., Jin, Y., Hillen, A., & **Ziegler, L**. (2024, March 25-29). *Addressing Challenges with Designing, Creating, and Incorporating Digitally Fabricated Math Tools in Standard-based K-12 Contexts* [Best Practices session]. Society for Information Technology & Teacher Education International Conference, Las Vegas, NV, United States.

Ziegler, L. & Martin, L. (2023, March 25-29). *The iTeach MakerBus: Lessons Learned from Designing and Implementing a Mobile Makerspace.* [Paper session]. Society for Information Technology & Teacher Education International Conference, New Orleans, LA, United States.

Ziegler, L. & Martin, L. (2022, November 6-9*). MakerTube-Inspiring students to make at home during COVID-19 school closures.* [Poster session]. International

Symposium for Academic Makerspaces, Atlanta, Georgia, United States.

Ziegler, L. & Martin, L. (2022, October 5-6). *The iTeach MakerBus: A Mobile Makerspace Equipped for Access.* [Poster session]. Society For Information Technology & Teacher Education International Interactive Conference, Online.

Ziegler, L. (2022, May 2-5). *STEM education for Indigenous youth.* Invited workshop, National Indian and Native American Employment and Training Conference, Catoosa, OK. United States.

Martin, P., **Ziegler, L.**, & Cohen, J. D. (2022, April 11-15). *What are you making in your virtual space? A mixed-methods study of how media specialists are implementing virtual maker-centered learning during 2020 pandemic closures.* [Paper session]. Society For Information Technology & Teacher Education International Interactive Conference, Online.

Martin, L., Cohen, J. D., & **Ziegler, L.** (2021, November 2-6). *Student Experience Of An Online Maker Course During The Covid-19 Pandemic: A Case Study.* [Paper session]. Association For Educational Communications & Technology, Online.

Ziegler, L., Martin, L., & Cohen, J.D. (2021, October 26-28). *Teacher perceptions of native science during an indigenous virtual STEM camp.* [Paper session]. Society For Information Technology & Teacher Education International Interactive Conference, Online.

Ziegler, L., Martin, L., Aghasaleh, R., & Herbert-Meny, J. (2021, March 29-April 2). *Mobile Makerspaces: Designing And Implementing A Mobile Makerspace.* [Panel session] Society For Information Technology & Teacher Education International Conference, Online.

Internal Grant Award

Harron, J., Jin, Y., Hillen, A., Thomas, D., & **Ziegler, L.** (funded). Maker Math 2.0: Teaching Digital Fabrication through the Design, Creation, Application, and Sharing of Standards-Based Math Manipulatives (July 2023 – July 2024). Funded Bagwell College of Education, Kennesaw State University ($4,500).

Professional Development Provided

Ziegler, L., Stapleton, T., & Cauffiel, C. (2023). *Project-Based Learning for High School Students*. Professional development for Midtown High School, Atlanta Public Schools, June 1, 2023, Atlanta, GA.

Ziegler, L. (2023). *Project-Based Learning*. Professional development for Midtown High School, Atlanta Public Schools, February 16, 2023, Atlanta, Georgia.

Martin, L & **Ziegler, L.** (2023). *Project-Based Learning for High School Students*. Professional development for the Atlanta Jewish Academy, January 19, 2023, Sandy Springs, Georgia.

Cauffiel, C., **Ziegler, L.**, & Martin, L, (2022). *STEAM 101*. Professional development for the St. Benedict's School, August 12, 2023, Smyrna, Georgia.

Ziegler, L. & Martin, L (2022). *Maker-Centered Learning & STEM*. Professional development for Fair Oaks Elementary School, July 28, 2022, Marietta, Georgia.

Martin, L. & **Ziegler, L.** (2022). *What is MakerEd?* Professional development for Woodward Academy Primary School, January 14, 2022, Atlanta, Georgia.

Ziegler, L., Martin, L., McBride, K., & Klinger, K. (2021) *Maker-Centered Learning for High School Students.* Professional development for Roswell High School, August 4, 2021, Roswell, Georgia.

Ziegler, L., & Crocker, B. (2021) *Using Nearpod in the Classroom.* Professional development for Fayette County Public Schools, January 13, 2021, Online.

Martin, L. & **Ziegler, L.** (2020) *Makey Makey Workshop*. Professional development for Georgia Educational Technology Consortium, November 16, 2020, Online.

Ziegler, L. (2020) *Connected Learning Master Class: Engaged Learning in a Connected Environment.* Professional development for Georgia Educational Technology Consortium, November 12, 2020, Online.

Ziegler, L. (2020) *Google Classroom Training.* Professional development for Giles County Schools, August 3-6, 2020, Online.

Martin, L. & **Ziegler, L.** (2020). *Designing and Implementing Computer Science Curriculum in Elementary School.* Professional development for computer science teachers in Buford City Schools, May 1, 2020, Online.

Martin, L. & **Ziegler, L.** (2020). *Maker-Centered Learning for STEM Teachers*. Professional development for STEM teachers in Paulding County School District, May 27, 2020, Online.

Martin, L. & **Ziegler, L.** (2019). *Novel Engineering for Students*. Professional development for Gwinnett County Public Schools, September 12, 2019, Suwanee, Georgia.

Martin, L. & **Ziegler, L.** (2019, July). *Novel Engineering for Students*. Professional development for Cobb STEM Innovation Academy, Marietta, Georgia.

Martin, L., **Ziegler, L.**, Vaughn, K., & Brown, Z. (2019, May) *Maker-Centered Learning for High School Students.* Professional development for Queen of Angels Catholic School, Roswell, Georgia.

Ziegler, L. (2018, June) *Digital Tools for the Classroom*. Professional development for East Lake Elementary School, McDonough, Georgia.

Fellowships & Scholarships

American Indian Science and Engineering Society (AISES) Lighting the Pathway (LTP) to Faculty Careers for Natives in STEM Cohort 3 (Fall 2021- Summer 2023, $4,000)

The LTP program provides a full circle of support to American Indian, Alaska Native, Native Hawaiian, and Pacific Islander students who are on the pathway to becoming STEM faculty. This full circle of support includes mentorship, travel funding, and educational/research/fellowship/internship opportunities.

Cobell Graduate Scholarship (Fall 2023-Spring 2024, $12,500)

Citizen Potawatomi Nation Scholarship (Fall 2020-Spring 2024, $8,250)

Products

[MakerTube](#) – a series of YouTube videos that challenge students to tinker and create
using readily available materials

Service

Service to the UWG College of Education

2024-present	Course Design Work Group (CDWG)
	The CDWG reviews courses and provides feedback for Georgia's BEST
2024-present	Instructional Support Mentor (ISM)
	ISM's mentor and support part-time faculty for Georgia's BEST
2024-present	Graduate Student Advisor
2024-present	Doctoral Dissertation Advisor
2024-present	Volunteer for UWG Mobile Innovations Lab

Service to the Profession: Elected and Appointed Leadership Positions

2022-present	Co-chair, Maker Special Interest Group; Society for Information Technology and Teacher Education (elected)

Professional Memberships

2021-present	Society for Information Technology & Teacher Education
2020-present	American Indian Science and Engineering