Caitlin E. Riegel, Ph.D.
Curriculum Vitae

College of Education, Department of Teacher Education
Academic Complex 326A
Niagara University, NY 14109
(716) 286-8315
ceriegel@niagara.edu

EDUCATION

Ph.D. in Leadership and Policy May 2018
summa cum laude
Niagara University, NY
Dissertation Title: The Development of the Teacher Preparation Technology
Inventory (TPTI): An Instrument Designed to Measure How Often Teacher
Candidates Model and Apply the 2017 International Society for Technology
in Education (ISTE) Standards for Educators in Teacher Preparation Programs

M.A. Special Education May 2015
summa cum laude
Niagara University, NY

B.S. Education, Adolescent Mathematics May 2013
summa cum laude
Niagara University, NY

CERTIFICATIONS

New York State Teaching Certifications: Mathematics 5-9 & Mathematics 7-12
New York State Special Education Certifications: Generalist & Mathematics 7-12

AREAS OF EXPERTISE & INTEREST

Teacher Preparation	Educational Technology	Instrument Development
Teacher Education Standards	Educational Research	Mathematics
Adolescent Education	Assessment	Special Education

TEACHING EXPERIENCE

Assistant Professor 2022 – Present
Teacher Education Department, College of Education
Niagara University, NY
Undergraduate Courses:
- EDU 228 Equity, Diversity, & Inclusion

Graduate Courses:
- EDU 536 Human Learning, Development and Motivation
- EDU 595 Introduction to Educational Research
- EDU 760 General Methods of Secondary Teaching

Adjunct Professor 2015 – Present
College of Arts and Sciences, Department of Mathematics
Niagara University, NY
Undergraduate Courses:

- MAT 101 Math for the Liberal Arts
- MAT 106 Intro to College Math

Assistant Professor 2020 – 2022
Department of Education
Medaille University, Buffalo, NY
Undergraduate Courses:
- ESP 230 Introduction to Special Education
- EDU 340 Child Abuse/SAVE Awareness
Graduate Courses:
- EDU 600 Curriculum Planning in Adolescent Education
- ECI 510 Research in Education

Adjunct Professor 2015 – 2022
College of Education, Department of Education
Niagara University, NY
Undergraduate Courses:
- EDU 239 Characteristics of Students with Exceptional Needs
- EDU 498 Instructional Technology
Graduate Courses:
- EDU 505 Measurement and Evaluation in Education
- EDU 536 Human Learning, Development and Motivation
- EDU 539 Educating Students with Exceptional Learning Needs
- EDU 595 Introduction to Educational Research
- EDU 598 Instructional Technology

Adjunct Professor 2018 – 2019
Science, Health and Mathematics Division
Niagara County Community College, Sanborn, NY
Undergraduate Courses:
- MAT 104 Math with Business Applications
- MAT 106 Contemporary Math
- MAT 108 Math for Childhood Education I
- MAT 109 Math for Childhood Education II
- MAT 164 Introduction to Statistics

Doctoral Teacher Assistant 2016 – 2017
College of Education, Department of Professional Studies
Niagara University, NY
Doctoral Courses:
- ADS 805 Research & Statistics

ADMINISTRATIVE EXPERIENCE

Program Director 2020 – 2022
Masters of Science in Elementary and Adolescent Education Programs

Department of Education
Medaille University, NY

Doctoral Research Assistant 2015 – 2017
College of Education, Department of Professional Studies
Niagara University, NY

Graduate Assistant 2013 – 2015
College of Education, Graduate Education Office
Niagara University, NY

PUBLICATIONS

Carr, J. & **Riegel, C.** (2023). Addressing teacher candidate perceptions and attitudes toward mathematics through an elementary math methods course with social justice pedagogy. *The Teacher Educators' Journal, 16*(2), 69-100.

Carr, J. & **Riegel, C.** (2022). Weekly teacher encouragement: One text message at a time. In Baumgartner, E., Kaplan-Rakowski, R., Ferdig, R.E., Hartshorne, R., & Mouza, C. *A retrospective of teaching, technology, and teacher education during the COVID-19 pandemic*. Association for the Advancement of Computing in Education (AACE). https://www.learntechlib.org/primary/p/221522

Riegel, C. (2021). Examining program completer and employer satisfaction in advanced-level programs. *Educational Planning*, *28*(2), 59-76.

Riegel, C. (2019). Developing the Teacher Preparation Technology Inventory (TPTI) to evaluate teacher educator preparation. *Journal of Technology and Teacher Education, 27*(2), 207-234.

Riegel, C. & Branker, M. (2019). Reaching deep conceptual understanding through technology. *Mathematics Teacher*, *112*(4), 307-311.

Riegel, C. & Tong, Y. (2018). Educational technology and teacher education programs: A Geographic Information Systems (GIS) study. *Teacher Education and Practice, 30*(4), 662-683.

Riegel, C. & Mete, R. (2018). Educational technologies for K-12 learners: What digital natives can teach digital immigrants and what digital immigrants can teach digital natives. *Educational Planning, 24*(4), 49-58.

Mete, R., **Riegel, C.**, Kozen, A., & Polka W. (2017). What every contemporary teacher educator needs to know about technology...but, didn't know who to ask!. *Critical Issues in Teacher Education, 26*, 41-55.

Riegel, C. & Kozen, A. (2016). Attaining 21st century skills in a virtual classroom using technology. *Educational Planning, 23*(3), 41-55.

Polito, A., **Riegel, C.**, & Vermette, P. (2013). Ms. Whitesox; Middle school math teacher: Providing evidence of meeting the new New York State teaching standards. *In Transition, 30*(3), 26-28.

CONFERENCE PRESENTATIONS

Riegel, C. (2023, August). *Navigating assessments and artificial intelligence: A framework for developing online formative assessments.* Research presented at the Society for Information Technology and Teacher Education (SITE) Interactive Conference. Virtual

Weinstein, D. & **Riegel, C.** (2023, July). *The reality of appropriate technology implementation in the classroom.* Research presented at the Learning, Innovation, and Technology in Education (LITE) Conference. Riverside Polytechnic High School, Riverside, CA.

Riegel, C. (2023, May). *Utilizing manipulatives to build respect, appreciation and celebration of diversity in a first-year education course*. Research presented at the Teaching Academic Survival and Success (TASS) Conference. Virtual.

Riegel, C. & Weinstein, D. (2023, March). *Technology implementation classrooms: The need for national technology standards.* Research presented at the Association of Teacher Educators (ATE) Conference. Jacksonville, FL.

Riegel, C. & Weinstein, D. (2023, March). *A closer look at technology implementation in the classroom*. Research presented at the Society for Information Technology and Teacher Education (SITE) Conference. New Orleans, LA & Virtual.

Carr, J. & **Riegel, C.** (2023, February). *Perceptions and attitudes of teacher candidates in an elementary math methods course*. Research presented at the Association for Independent Liberal Arts Colleges for Teacher Education (AILACTE) Conference. Indianapolis, IN.

Riegel, C. (2022, October). *Anticipating burnout: Taking preventative measures in educator preparation programs to combat the teacher shortage*. Research presented at the New York State Association of Teacher Educators – New York Association of Colleges for Teacher Education (NYSATE-NYACTE) Fall Conference. Saratoga Springs, NY.

Riegel, C. (2022, October). *Current events as opportunities to build research competencies in students*. Research presented at the International Society of Educational Planners (ISEP) Conference. Virtual.

Riegel, C. (2022, October). *Developing teachers online: Challenges and advantages to virtual education courses*. Research presented at the Society for Information Technology and Teacher Education (SITE) Conference. Virtual.

Riegel, C. (2022, August). *Advocating for the growth of the profession: Building Educator Preparation Programs for graduate students.* Research presented at the Association of Teacher Educators (ATE) Conference. Nashville, TN.

Riegel, C. (2022, March). *Innovative models for teacher education orientations: Using a Learning Management System (LMS) to provide early opportunities for engagement and success*. Research presented at the Association for Independent Liberal Arts Colleges for Teacher Education (AILACTE) Conference. New Orleans, LA.

Riegel, C. (2022, February). *Reimagining educational research courses to prepare antifragile teachers.* Research presented at the Association of Teacher Educators (ATE) Conference. Chicago, IL.

Riegel, C. (2021, November). *Grabbing the data by the horns: Steering your program towards High Leverage Practices (HLPs)*. Research presented at the Teacher Education Division (TED) of the Council for Exceptional Children (CEC) 2021 Conference. Fort Worth, TX.

Riegel, C. (2021, November). *Modeling the use of interactive presentation platforms in teacher education*. Research presented at the Association for Educational Communications & Technology (AECT) International Convention. Chicago, IL & Virtual.

Riegel, C. (2021, October). *Using community partnerships to enhance culturally responsive pedagogy courses in educator preparation programs*. Research presented at the New York State Association of Teacher Educators – New York Association of Colleges for Teacher Education (NYSATE-NYACTE) Fall Conference. Virtual.

Riegel, C. (2021, October). *The sustainability of virtual courses in educator preparation programs*. Research presented at the International Society of Educational Planners (ISEP) Conference. Virtual.

Riegel, C. (2021, August). *Preparing for the unexpected: Using Pear Deck to seamlessly transition between in-person and online teaching*. Research presented at the Association of Teacher Educators (ATE) Summer Conference. Virtual.

Riegel, C. (2021, February). Fostering community online: Qualities of effective synchronous virtual conferences. Research presented at the Association for Independent Liberal Arts Colleges for Teacher Education (AILACTE) Conference. Virtual.

Mete, R. & **Riegel, C.** (2021, February). *Strategies for stress management and emotional wellbeing: Teacher educators adapting within the age of distance education*. Research presented at the Association of Teacher Educators (ATE) Conference. Virtual.

Riegel, C. & Mete, R. (2020, October). *Professional networking on a global scale in the digital age: Advice for educational planners*. Research presented at the International Society of Educational Planners (ISEP) Conference. Virtual.

Riegel, C. (2020, October). *Preparing for distance learning: Elements of effective professional development*. Research presented at the International Society of Educational Planners (ISEP) Conference. Virtual.

Riegel, C. (2020, October). *The development of the Teacher Preparation Technology Inventory (TPTI): An instrument designed to measure how often teacher candidates model and apply the 2017 International Society for Technology in Education (ISTE) Standards for Educators in teacher preparation programs*. Dissertation presented at the International Society of Educational Planners (ISEP) Fall Conference. Virtual.

Riegel, C. & Mete, R. (2020, August). *Mental health in the 21st century classroom: Technology strategies for pre-service teachers*. Research presented at the Association of Teacher Educators (ATE) Summer Conference. Virtual.

Riegel, C. (2020, February). *Measuring advanced-level program impact: Examining program completer and employer satisfaction*. Paper presented at the Association for Independent Liberal Arts Colleges for Teacher Education (AILACTE) Conference. Marriott Marquis, Atlanta, GA.

Riegel, C. (2019, April). *The development of the Teacher Preparation Technology Inventory (TPTI)*. Paper presented at the American Educational Research Association (AERA) Annual Meeting. Toronto, ON, Canada.

Riegel, C. (2018, January). *Pear Deck: Key to student engagement and cure to death by PowerPoint*. Research presented at Committee on College Teaching and Learning (CCTL) Spring Conference. Niagara University, Lewiston, NY.

Riegel, C. & Mete, R. (2017, October). *A closer look at educational technologies: What digital natives can teach digital immigrants and what digital immigrants can teach digital natives*. Paper presented at the International Society of Educational Planners (ISEP) Fall Conference. Toronto, ON, Canada.

Riegel, C. (2017, October). *Using Geographic Information Systems (GIS) to demonstrate the extent teacher education programs in the United States prepare pre-service teachers to make effective use of educational technology for instruction*. Paper presented at the International Society of Educational Planners (ISEP) Fall Conference. Toronto, ON, Canada.

Riegel, C. & Mete, R. (2017, August). *What contemporary teacher educators need to know about technology...But, didn't know who to ask: A contemporary review of educational technology hardware and software by higher education practitioners*. Paper presented at

the Association of Teacher Educators (ATE) Summer Conference. Sheraton Station Square, Pittsburgh, PA.

Riegel, C. & Kozen, A. (2016, August). *Looking at 21st century skills through the lens of a virtual classroom: Using technology to broaden the look*. Paper presented at the New York State Association of Teacher Educators – New York Association of Colleges for Teacher Education (NYSATE-NYACTE) Fall Conference. Saratoga Springs, NY.

Polito, A., **Riegel, C.**, Vermette, P. (2012, October). *Implementation of the New York State Teaching Standards*. Paper presented at the New York State Middle School Association (NYSMSA). Millennium Hotel, Buffalo, NY.

PROFESSIONAL PRESENTATIONS

Riegel, C. (2023, April). *Educational technology*. Invited presenter for Teacher Candidates meeting by the Niagara University Future Teachers Association (NUFTA). Niagara University, Lewiston, NY.

Riegel, C. (2023, January). *PhD alumni panel discussion*. Invited panelist for Niagara University Doctoral Symposium. Niagara University, Lewiston, NY.

Riegel, C. (2022, April). Developing a virtual learning environment that supports student and teacher mental health. Invited presenter for Future Teachers Club (FTC) Workshop. Medaille University, Buffalo, NY.

Riegel, C. (2021, October). *The use of Pear Deck for both in-person and online K-12 teaching.* Invited presenter for Future Teachers Club (FTC) Workshop. Medaille University, Buffalo, NY.

Riegel, C. (2021, October). *APA formatting*. Invited presenter for Academic Success Center (ASC) Workshop. Medaille University, Buffalo, NY.

Riegel, C. (2021, May). *Using Blackboard Organizations to Administer Student Orientations and Clubs*. Invited presenter for Digital Learning Days Virtual Symposium: Instructor Presence & Student Engagement. Medaille University, Buffalo, NY.

Riegel, C. (2019, February). *Educational Technology: EdPuzzle*. Invited presenter for Teacher Candidates meeting by the Niagara University Future Teachers Association (NUFTA). Niagara University, Lewiston, NY.

Riegel, C. (2018, December). *The Development of the Teacher Preparation Technology Inventory (TPTI)*. Invited presenter for Niagara University Doctoral Symposium. Niagara University, Lewiston, NY.

Riegel, C. (2017, February). *Technologies for language acquisition*. Invited presenter for educators from Vietnam by the Edward A. Brennan Center for Language, Culture and Leadership. Niagara University, Lewiston, NY.

Riegel, C. (2017, January). *Educational Technology: PearDeck*. Invited presenter for faculty at the College of Education Faculty Retreat. Tuscarora Community Center, Lewiston, NY.

Riegel, C. (2017, January). *Instructional Technology in the Classroom: Using Socrative in the Higher Education Classroom to Teach Future Teachers*. Invited presenter for university faculty by Committee on College Teaching and Learning. Niagara University, Lewiston, NY.

Riegel, C. (2016, December). *Using Educational Technology in the Classroom*. Invited presenter for Teacher Candidates meeting by the Niagara University Future Teachers Association (NUFTA). Niagara University, Lewiston, NY.

Riegel, C. (2016, October & November). *Excel Functions for Higher Education*. Invited presenter for staff development by the Institute of Applied Learning. Niagara University, Lewiston, NY.

Riegel, C., Miller, W., Carter, T. (2016, May). *Technology Implementation in a Health Care Setting: Benefits, Challenges, and Best Practices for Technology Implementation in the Health Care Setting*. Invited presenter for CEO by the Institute of Applied Learning. Niagara Falls Memorial Medical Center, Niagara Falls, NY.

Riegel, C. (2016, January). *Technology in the Fields of Clinical Mental Health Counseling, School Counseling, School Psychology, Educational Leadership, Teacher Education, and Leadership & Policy*. Invited presenter for faculty development by the College of Education. Niagara University, Lewiston, NY.

Riegel, C. (2016, December & 2015, December). *Using Educational Technology in the Classroom*. Invited presenter for Teacher Candidates by the Niagara University Future Teachers Association (NUFTA). Niagara University, Lewiston, NY.

Riegel, C. (2015, February). *edTPA Panel Discussion*. Invited panelist for undergraduate student consultation in the College of Education preparing to complete the edTPA for teacher certification. Niagara University, Lewiston, NY.

Polito, A., **Riegel, C.**, Vermette, P. (2012, October). *Implementation of the New York State Teaching Standards*. Invited presenter for teacher professional development. Niagara Catholic Junior-Senior High School, Niagara Falls, NY.

GRANTS

National Science Foundation (NSF)   2023
Robert Noyce Teacher Scholarship Program: Capacity Building
(Submitted)
Niagara University
$100,000
Co-Principal Investigator
Expanding NU STEM Education Pathways (ENSTEP)

Niagara University Summer Research Award   2023
Internal
Niagara University
$5,200
Principal Investigator
Examining the use of Online Formative Assessment to Address Concerns Related
to Artificial Intelligence (AI)

Niagara University Academic Innovation Mini Grant   2023
Internal
Niagara University
$400
Co-Principal Investigator
Teacher Education Academic Content (TEAC)

Niagara University Strategic Initiative Grant   2023

Internal
Niagara University
$5,000
Co-Principal Investigator
Online Teacher's Studio (OTS)

Medaille University Innovation Fund   2021
Internal
Medaille University
$21,364.40
Principal Investigator
Graduate Virtual Information Sessions

National Science Foundation (NSF)   2020
Robert Noyce Teacher Scholarship Program: Capacity Building
Proposal #2050459
Medaille University
$124,990
Co-Principal Investigator
Nurturing STEM: Growing Connections between the College and the Community

HONORS & AWARDS

Awards

Journal of Research on Technology in Education Reviewer of the Year	2023
Glen Earthman Outstanding Dissertation of the Year	2020
Amherst Skating Club Service Award	2009
Bruce Lipman Service Award	2006

Scholarships

United States Figure Skating Association Memorial Fund Scholarship	2016 & 2017
Full Scholarship to Pursue Ph.D. at Niagara University for Leadership & Policy	2015
Full Scholarship to Pursue M.A. at Niagara University for Special Education	2013
Half Scholarship to Pursue B.S. at Niagara University for Education, Secondary Mathematics	2009

Honor Societies

Kappa Gamma Pi, National Graduate Honor Society for Catholic Colleges and Universities	2014 – 2016
Kappa Delta Pi, Alpha Alpha Beta Chapter, International Honor Society in Graduate Education (*President, 2014; Past President, 2015; Communication Chair and Webmaster, 2016 & 2017*)	2013 – 2018
Pi Lambda Theta, International Honor Society in Undergraduate Education	2009 – 2013
Kappa Mu Epsilon, National Mathematics Honor Society	2009 – 2013
Delta Epsilon Sigma, Honor Society for Catholic Universities	2009 – 2013

Athletics

United States Figure Skating Association, Gold Singles	2009
Second Team ECIC All-Star, Division One Varsity Softball	2009
United States Figure Skating Association, Gold Skating Skills	2008

SERVICE: DEPARTMENT

Teacher Education Academic Content (TEAC)   2022 – Present
Niagara University, College of Education, Teacher Education Department
Co-Chair

SERVICE: COLLEGE

Partnership Inventory Committee   2022 – 2023
Niagara University, College of Education
Co-Chair

Search Committee: Assistant Professor   2020 – 2022
Medaille University, Department of Education
Chair

Dissertation Committee: Caressa Guerrero   2019 – 2020
Niagara University
Member

Research Project, Employer Satisfaction   2019
Niagara University, College of Education
Principle Researcher

CAEP Accreditation   2017
Niagara University, College of Education
Interviewee

Niagara University Student Teacher Showcase   2017
Niagara University, College of Education
Alumni Representative

College of Education Ambassador   2017
Niagara University, College of Education
Ambassador

SERVICE: UNIVERSITY

Committee on Committees   2023 – 2025
Niagara University
Member

Niagara University Club Figure Skating   2022 – Present
Niagara University
Faculty Advisor

Experiential Learning Workgroup   2022
Niagara University, Senate General Education Committee
Member

Faculty Mentorship Program   2022
Niagara University
Mentee

Kappa Delta Pi (KDP)   2021 – 2022
Medaille University, Department of Education
Founder
Chapter Counselor

Faculty Development Committee (FDC)   2021 – 2022
Medaille University
Committee Member

Online Faculty Mentor   2021 – 2022
Medaille University
Mentor

Online Advisory Board (OAB)   2020 – 2022
Medaille University
Member

Educational Technology Committee (ETC)   2020 – 2022
Medaille University
Member

Diagnostic Test Development   2019
Niagara University, Department of Mathematics
Developer

National Foreign Language Program   2017
Niagara University, Brennen Center
Resource

Institutional Review Board (IRB)   2016 – 2017
Niagara University
Administrator

Academic Integrity Board   2015 – 2016
Niagara University
Student Member

Curriculum Committee of the Academic Senate   2014 – 2015
Niagara University
Student Member

SERVICE: DICIPLINE

Association of Teacher Educators (ATE)   2023 – 2026
Member, Association Development and Membership Committee

American Educational Research Association (AERA)   2023
*Reviewer, 2024 Conference Proposals for Division K Section 05: Teacher &
Teacher Educator Learning and Instructional Technology SIG*

Association of Independent Liberal Arts Colleges for Teacher Education   2023 – 2024
(AILACTE)
Chair, 2025 Conference Planning Committee

International Society for Educational Planners (ISEP)   2022 – 2023
Vice President, Board of Directors

Association of Independent Liberal Arts Colleges for Teacher Education   2022 – 2025
(AILACTE)
East Regional Representative, Executive Committee
Publications Editor, Executive Committee

Association of Teacher Educators (ATE)   2022 – 2024
Member, 2024 Summer Conference Planning Committee

AILACTE Journal   2022 – Present
Assistant Editor
Editorial Review Board

Educational Planning Journal   2019 – Present
Editorial Review Board

Journal of Research on Technology in Education (JRTE)   2018 – Present
Editorial Review Board

Association for Educational Communications and Technology (AECT)   2023
Reviewer, Division of Distance Learning (DDL) Best Practice Award

Association for Educational Communications and Technology (AECT)   2021 & 2022
Reviewer, Division of Distance Learning (DDL) Best Journal Article Award

Buriram Rajabhat University National and International Symposium   2018
Peer Reviewer

SERVICE: COMMUNITY

Niagara Falls City School District Technology Committee	2022 – Present
Member	

AKE Games, Inc.	2022 – Present
Advisor	

Community Show & Open Skate	2023
Niagara University, Dwyer Arena	
Director	

Story Lane on Ice Community Event	2022
Niagara University, Dwyer Arena	
Director	

PROFESSIONAL MEMBERSHIPS

Association of Independent Liberal Arts Colleges for Teacher Education (AILACTE)	2020 – Present
New York State Association for Computers and Technologies in Education (NYSCATE)	2018 – Present
New York State Association of Teacher Educators (NYSATE)	2021 – Present
American Educational Research Association (AERA)	2018 – Present
International Society for Technology in Education (ISTE)	2017 – Present
Association for Educational Communications and Technology (AECT)	2017 – Present
Association of Teacher Educators (ATE)	2017 – Present
International Society for Educational Planners (ISEP)	2017 – Present
National Association for the Education of Young Children (NAEYC)	2022 – 2023

PROFESSIONAL SKILLS

Learning Management Systems (LMS): Canvas, Blackboard
Microsoft Office Suite: Word, Excel, PowerPoint, Publisher, Teams
Recruitment Software: Ellucian Recruiter/Colleague, Banner, Slate
Statistical/Survey Software: SPSS, ArcGIS, GENOVA, Nvivo, Qualtrics, Google Forms
Programming Languages: HTML, Visual Basic, Python
Mathematical Packages: MyLab Math, Matlab
Web Hosting Platforms: SilverStripe, Wordpress, Google Sites
Educational Technologies: Pear Deck, Kahoot!, EdPuzzle, Padlet, Class Dojo, Google Classroom, etc.
Referencing: APA 7
Other: Constant Contact, Zoom, SMARTboard, ViewSonic, Social Media Platforms