CURRICULUM VITAE

Dr. Laura Bardroff Zieger, Ed.D.
Chairperson & Professor, Department of Educational Technology
Deborah Cannon Partridge Wolfe College of Education, New Jersey City University
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CONTACT

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PROFESSIONAL SUMMARY

Innovative educational-technology leader with 20+ years of university teaching and academic leadership experience. Research, grants, and publications focus on emerging technologies—AI, immersive environments, robotics, drones—and on increasing STEM persistence among historically under-represented students. Proven record of securing a $430 k Martinson Family Foundation grant and contributing to externally funded projects totaling more than $6 million, chairing 40 doctoral dissertations and serving on 70+ dissertation committees, founding and authoring the Ed.D. in Educational Technology Leadership program, and building cross-institutional STEM partnerships.

AREAS OF EXPERTISE

• Educational-technology leadership • STEM program design & evaluation • AI & learning analytics • Immersive & virtual environments • Robotics & drones in education • Faculty development • Online & blended learning • Grant writing & administration • Qualitative & mixed-methods research

EDUCATION

Ed.D., Educational Technology, Pepperdine University, CA (2005)
M.A., English Language & Literature, Montclair State University, NJ (1996)
B.A., English Education (Cum Laude), Montclair State University, NJ (1992)

Licensure: New Jersey Standard English Teaching Credential

ACADEMIC APPOINTMENTS

New Jersey City University — Department of Educational Technology
Chairperson & Professor (2013-present); Professor (2013-present); Associate Professor (2010-2013); Assistant Professor (2004-2010)

• Founded, authored, and launched the Ed.D. in Educational Technology Leadership (2009);
• Elected chair and steered the department through two successful accreditation cycles (2009-present)
• Lead strategic planning, budgeting, hiring, curriculum development, and assessment for Ed.D., M.A., and certification programs
• Supervisor for 40 completed and 4 ongoing doctoral dissertations; served on 70+ dissertation committees

Pepperdine University — Graduate School of Education & Psychology
Adjunct Professor (2003) & Graduate Assistant (2002-2003)

Additional instructional, supervisory, and administrative roles at Montclair State University (1992-2003) and Inflexi Web Solutions (2009-2012).

SELECTED GRANTS & FUNDED PROJECTS

Role	Project	Agency	Years	Amount
Activity Co-Director	**HSI Proyecto STEM** (Title III, U.S. Dept. of Ed.)	USDOE	2016-2021	$5.74 M
Principal Investigator & Project Director	**STEM Certificate Program** (Martinson Family Foundation)	Martinson Family Foundation	2019-2022	$0.43 M
Co-Coordinator	**Proyecto STEM Supplemental Title III Part F**	USDOE	2020	$0.15 M
PI/PD	Numerous internal mini-grants (VR in Education, Robotics, etc.)	NJCU	2014-2024	$0.07 M

Signature Grant: Secured $430 k Martinson Family Foundation gift (2019) to design and launch NJCU's online *STEM Certificate Program* for K-12 educators—developed curriculum, recruited statewide cohorts, and oversaw implementation.

Total external funding for projects to which I contributed as Co-PI or Activity Lead: **$6.4 million**

PUBLICATIONS

Peer-Reviewed Articles & Book Chapters (Chronological)

Shamburg, C., **Zieger, L.**, Mason, D., & Amerman, T. (2025). Teachers & ChatGPT: The first wave on TikTok. *Teaching and Teacher Education, 159,* 104993.

Shamburg, C., Amerman, T., **Zieger, L.**, & Bahna, S. (2021). When school bells last rung: New Jersey schools and the reaction to COVID-19. *Education & Information Technologies,* 1-22. https://doi.org/10.1007/s10639-021-10598-w.

Zieger, L., Brown, D., Bensetti-Benbader, H., & Munn, C. (2019). Developing and managing a cohort-based doctoral program in educational technology leadership. In *Proceedings of SITE 2019* (pp. 598-601).

Zieger, L. & Carnahan, C. (2015). Free, easy and useful online tools for educators. In *Proceedings of SITE 2015* (p. 1024).

Chittur, D., **Zieger, L.**, Hansen, R., Rabinovich, L., & Costello, R. (2015). Instructional design in teacher education: Enhancing engagement. In *Proceedings of SITE 2015* (pp. 211-215).

Zieger, L. & Farber, M. (2012). Civic participation among seventh-grade social studies students in multi-user virtual environments. *Journal of Interactive Learning Research, 23*(4), 403-420.

Zieger, L. & Tan, J. (2012). Improving parent involvement in secondary schools through communication technology. *Journal of Literacy and Technology, 13*(2).

Jackson, J. & **Zieger, L.** (2012). Teacher acquisition of educational technology: An activity theory perspective. In *Proceedings of SITE 2012.*

Zieger, L. (2010). Member perspectives. *Tapped In* (August issue).

Zieger, L. & Jackson, J.M. (2009). Online discussion-based learning: Using asynchronous tools to create community. In *Proceedings of SITE 2009* (pp. 3063-3067).

Zieger, L., Rispoli, K., & Hansen, R. (2008). Modeling technology integration for pre-service teachers to promote social learning environments. In *Proceedings of SITE 2008* (pp. 3235-3239).

Books

Carnahan, C., **Zieger, L.**, & Crowley, K. (2016). *Drones in Education: Let Your Students' Imaginations Soar.* ISTE Press.

Twomey, C., Shamburg, C., & **Zieger, L.** (2006). *Teachers as Technology Leaders: Technology Facilitator Accreditation Guide.* ISTE.

Dissertation / Thesis

Zieger, L. (2005). *The relationship between student orientation programs that support community building and retention of distance learners.* Dissertation Abstracts International.

PRESENTATIONS & INVITED TALKS (Chronological)

Shamburg, C., **Zieger, L.**, Mason, D., & Amerman, T. (2025). Teachers' use of ChatGPT: The digital landscape of early adopters. *American Educational Research Association Annual Meeting,* Denver, CO.

Zieger, L., Smerda-Mason, D., & Shamburg, C. (2025). From now to next: AI innovations in special education. *All In Summer Inclusion Leadership Conference,* Kean University, Union, NJ.

Smerda-Mason, D., Stanton, L., Jayaraman, J., Chatterjee, M., **Zieger, L.**, & Wallace, A. (2025). Artificial intelligence, voices across the university. *AAC&U Project Kaleidoscope,* New Jersey City University, Jersey City, NJ.

Zieger, L., Smerda-Mason, D., & Kirby, C. (2024). Developing AI policy and integration. *Faculty Professional Development Series,* New Jersey City University, Jersey City, NJ.

Zieger, L., Smerda-Mason, D., & Degraw, D. (2024). Developing AI policy and integration. *Frankford Regional Schools Staff Training,* virtual.

Shamburg, C., **Zieger, L.**, Amerman, T., & Bahna, S. (2021). When school bells last rung: New Jersey schools and the COVID shutdown. *American Educational Research Association Annual Meeting,* Virtual.

Zieger, L. (2021). Reimagining the future: Education and the post-COVID school (panelist). *NJCU Educational Technology Department,* Jersey City, NJ.

Zieger, L. (2020). Brain Science Principles to Promote Active Learning with Educational Technology. *Future of Educational Technology Conference (FETC),* Orlando, FL.

Zieger, L. (2020). Brain science principles to promote active learning with EdTech. *Pennsylvania Educational Technology Expo & Conference (PETE&C),* Hershey, PA.

Zieger, L., Grew, J., & Carroll, R. (2020). Impact of gamification and evolution of a Summer STEM Success Academy at NJCU. *12th Alliance for HSI Educators Best Practices Conference,* Boca Raton, FL.

Zieger, L. (2019). Brain Science Principles to Promote Active Learning with Educational Technology. *New Jersey Association of School Librarians (NJASL) Annual Conference,* East Brunswick, NJ.

Zieger, L. (2019). Brain Science Principles to Promote Active Learning with Educational Technology. Invited presentation to the *Quzhou Delegation,* New Jersey City University, Jersey City, NJ.

Zieger, L. (2019). "I'm much more interesting online": Online identities and virtual communities. *NJEDge Invited Keynote,* William Paterson University, Wayne, NJ.

Zieger, L. (2019). Drones in the American Classroom. *China Education Innovation Expo,* Zhuhai, China.

Zieger, L. (2019). A day of hard fun: Active learning with EdTech for school library media specialists. *Cape Cod Collaborative PD,* Barnstable, MA.

Zieger, L., Grew, J., & Rak, J. (2018). Improved Student Outcomes and Financial Efficiency in a STEM Supplemental Instruction Program. *10th Annual Alliance for Hispanic-Serving Institution Educators Best Practices Conference,* University of Illinois at Chicago, Chicago, IL.

Zieger, L. (2018). Educational technologies in the STEM classroom. Ningbo Bureau of Education, New Jersey City University, Jersey City, NJ.

Zieger, L. (2017). Create, Innovate, and Re-imagine Education with Emerging Technologies. *Ningxia Province Academic Leaders' Professional Teaching Capacity Training Delegation,* New Jersey City University.

Zieger, L. (2017). Tech Tools for Teachers: Free, Easy and Useful Online Tools. *NJEA Convention,* Atlantic City, NJ.

Zieger, L. (2017). Create, Innovate, and Re-imagine the World with Robotics: A demonstration on the transformation of teaching and learning with robotics and drones. Keynote, *NJ Maker Summit,* NJ Makers Day, NJ Makers Consortium & Rutgers University, New Brunswick, NJ.

Zieger, L. (2017). Technology Tools and the Curriculum for Pre-Service Teachers and Blended Learning Workshop: Strategies & Technology Tools for Community College Faculty. *New Pathways to Teaching in NJ Capstone Conference,* Jersey City, NJ.

Zieger, L. (2017). "A Day in the Life of Women in Technology" (invited panelist). *Girls in Technology Symposium,* Hudson County Community College, Jersey City, NJ.

Zieger, L., Talalai, S., Mattaliano, P., Collado, E., & Markey, J. (2017). Technology Tools to Invigorate the Classroom. *Community College Computer Consortium (4Cs) of NJ Conference,* Mercer County Community College, West Windsor, NJ.

Zieger, L. (2017). Your digital footprint. Proyecto STEM, New Jersey City University, Jersey City, NJ.

Zieger, L., Jimenez, R., Bacha, F., Davis, D., Mattaliano, P., Murduca, J., & Ramirez, L. (2016). Climbing Mt. Everest: An Online Leadership Simulation. Poster session, *NJEDge Annual Conference,* Princeton, NJ.

Zieger, L., Safanova, A. (2016). Your Digital Footprint. *NJEA Convention,* Atlantic City, NJ.

Zieger, L. (2016). Virtual Reality & Augmented Reality: What's Next. *School Library Journal* webcast.

TEACHING

Doctoral Courses

- **EDTC 801** Summer Institute in Educational Technology Leadership I
- **EDTC 802** Principles of Educational Technology Leadership
- **EDTC 805** Cross-Discipline Studies in Technology
- **EDTC 809** Assessment and Evaluation
- **EDTC 812** Teaching in the Adult Learning Environment
- **EDTC 814** Advanced Effective Models of E-Learning
- **EDTC 816** Advanced Methods for Building Online Communities
- **Dissertation I & II** (Doctoral Research & Advisement)

Master's Courses

- **EDTC 612** Technology in the Math/Science Curriculum
- **EDTC 614** Introduction to Distance Learning
- **EDTC 616** Technology in Special Education Curriculum
- **EDTC 618** Learning Theories, Motivation, & Relationship to Technology
- **EDTC 621** Leading Curriculum Change Using the Internet
- **EDTC 622** Research Applications in Educational Technology I
- **EDTC 623** Introduction to Educational Technology
- **EDTC 625** Integrating STEM Across the Curriculum
- **EDTC 627** Seminar: Current Issues and Trends in Educational Technology
- **EDTC 628** Research Applications in Educational Technology II
- **EDTC 647** Educational Theory & Curriculum Design for the School Library Media Specialist
- **EDTC 648** Student Learning Development & Behavior Management for the School Library Media Specialist
- **EDTC 655** Internship: School Media Centers
- **EDTC 662** Advanced Field Experience (School Library Media)
- **LTED 618** Pedagogy and Application of Children's Literature in the K-12 Classroom

DOCTORAL DISSERTATIONS (Chair)

Supervised 40 completed Ed.D. dissertations (2009-2025) on topics such as AI, robotics, STEM, gamification, and online learning; 4 in progress.

Selected Dissertation Titles (Chair): • The Effect of Immersive Virtual Environments on Student Engagement • Robotic Literacy Learning Companions: Exploring Student Engagement with a Humanoid Robot in an Afterschool Literacy Program • An Exploratory Study of the Impact of School Websites on the Perception of Public Schools • Exploratory Sequential Study of Best Practices in Teacher Implementation Strategies Integrating Online Computer-based Adaptive Learning in Grades 3-5 Mathematics • Supporting STEM Student Success via Online Supplemental Instruction: A Mixed Methods Study • Implementation of STEM Academies in New Jersey: An Exploratory Multiple Case Study • Impact of a Gamified Orientation Program on Low-Income and Underrepresented Minority Undergraduate Student Success, Retention, and Persistence in a STEM Academy • A Case Study of the Integration of Robotics to Support the Educational and Therapeutic Goals of Students with Low Incidence Disabilities

UNIVERSITY & PROFESSIONAL SERVICE

Service to the University
• Department Senator (Fall 2024 – present)
• University Graduate Council (Fall 2012 – 2020); **Co-Chair** (2017 – 2020)
• Provost's Council (Fall 2014 – 2020)
• Doctoral Policy Handbook Ad Hoc Senate Committee (2017 – 2019)
• Online Learning Working Group (2017 – 2019)
• New Jersey Women's Network in Higher Education (2014 – 2018)
• Alternate Senator (2017 – 2024)
• University Reorganization Committee (2016)
• College of Education Dean Search Committee – elected by Senate (2016 – 2017)
• New Faculty Mentor (2013 – 2016)
• Provost Search Committee – appointed by President (Spring 2014)
• Faculty Range Change Adjustment Committee (2011 – 2014)
• Senator, Department of Educational Technology (2004 – 2013)
• Senate Committee on Planning, Development & Budget (2011 – 2013)
• Senate Graduate Studies Ad Hoc Committee for Doctoral Policy (2010 – 2011)
• Senate Committee on Instructional Technology (2007 – 2011); **Chair** (2009 – 2011)
• MSCHE Self-Study 2010 Institutional & Student Learning Assessment (2009)
• Senate Committee for Student Affairs (2005 – 2007); **Chair** (2006 – 2007)
• Task Force on Waterfront Programming (2006 – 2007)
• Authored 14 accredited courses (undergraduate, graduate, doctoral levels)

Service to the College of Education
• Executive Council (Spring 2013 – present)
• COE Recruitment & Retention Committee (2014 – 2019)
• TEAC Accreditation (2011 – 2013)
• Assessment Committee (2005 – 2010)
• COE Newsletter Editorial Staff (2009)
• Diversity Committee (2004 – 2008)
• Field Experience Committee (2004 – 2005)

Service to the Department of Educational Technology
• Chair (Spring 2013 – present)
• Doctoral Program Admissions Committee (Spring 2013 – present)
• Doctoral Qualifying Examination Review Committee (Spring 2013 – present)
• Department Personnel Committee (Fall 2004 – present)
• Educational Technology Faculty Search Committee (2010 – 2016)
• NCATE Accreditation (2014 – 2015)
• School Library Media Advisor (2008 – 2013)
• Doctoral Program & Course Development (Summer 2009 – Fall 2010)
• Thesis Advisement (2004 – 2011)
• TEAC Accreditation (2011 – 2013)
• ALA Accreditation (Spring 2007 – Spring 2009)
• E-Learning Initiative (Spring 2007)
• ISTE Accreditation (2004 – 2008)

HONORS & RECOGNITION

• Tenured (2009); Promotion to Professor (2013)

• ISTE Top-15 Bestseller Author (2016)

• Featured expert on ed-tech podcasts *The BUZZ on Education* (2020) and *Women & Drones* (2017)

• Featured Expert – "The Value of Bringing Drones to the Classroom," *The Atlantic* (Aug 2017)

EXTERNAL PROFESSIONAL SERVICE & AWARDS

• Editorial Board Member – *Journal of ITC* (2018 – present)
• Grant Reviewer – Fondation Botnar / WeRobotics "Fly for the Future" (July 2020)
• Featured Guest – "A Mindshare Learning Moment with Dr. Laura Zieger," Mindshare Learning Technology podcast (Nov 2019)
• Featured Expert – "Drones in Education," *Women & Drones* podcast (Sept 2017)

- Liberty STEM Alliance – Steering committee (2017 – 2019)
- Opening the Gate Grant – Technology Working Group (2015 – 2016)
- Judge – CODiE Awards, Software & Information Industry Association (2004 – 2018)
- Mini-Grant Professional Development Funds – Virtual Reality in Education (Spring 2014)
- Article Editor – Sage Publications (2014)
- Editorial Advisory Board – *Artificial Intelligence Applications in Distance Education* (2012 – 2013)
- Journal Editor – *Journal of Interactive Online Learning* (2005 – 2008)
- Grant Reviewer – MacArthur Foundation Digital Media & Learning Competition (2010)
- External Evaluator – SUNY Oneonta Educational Technology M.A. program (2008)
- Editor – Sage Publications book reviews & prospectus (2006 – 2007)

PROFESSIONAL MEMBERSHIPS

AERA • ISTE • AACE • NJEDge • NJASL • NJECC • Phi Delta Kappa (Exec. Board, 1996-2000)

Signature Strengths: visionary leadership · inclusive STEM initiatives · translating emerging research into practice · mentoring next-generation scholar-practitioners