

Luisa Perez Lacera

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SUMMARY

Education data analyst specializing in assessment analytics, program evaluation, and predictive modeling. Experienced in modernizing large-scale datasets, designing stakeholder-facing dashboards, and applying regression-based methods to improve equity-focused decision-making across K–12, nonprofit, and public health systems.

EDUCATION & CERTIFICATION

Master of Arts, Social Data Science

Arizona State University | Expected December 2026

- GPA: 4.0/4.0

Master of Science, Learning Sciences & Technologies

Worcester Polytechnic Institute | May 2022

- **Perez Lacera, L.** (2022). *A Qualitative Exploration of Student Preconceptions of Computational Thinking*.

Bachelor of Science, Psychological Science

Worcester Polytechnic Institute, | May 2020

- **Perez Lacera, L.** (2019). *Evaluating Grit Through the Use of MathSpring in Individualistic and Collectivist Cultures*.
- Beatty, P., Vega, D., & **Perez Lacera, L.** (2019). *The Motivations of Social Tuning: Perspective Taking and Affiliative Motivation*.

IRB Social and Behavioral Research (Group 2)

CITI Program | January 2025 - January 2029

EXPERIENCE

Data Aide

ASU Center for Violence Prevention and Community Safety | Remote | February 2025 – July 2025

- Ensured data accuracy and consistency for the CDC's Arizona Violent Death Reporting System, meeting federal standards through meticulous coding and abstraction of sensitive case data
- Improved database integrity by correcting data discrepancies, enabling more reliable research outputs
- Synthesized complex information from law enforcement and medical examiner reports while maintaining strict confidentiality and data protection protocols

Data and Assessment Coordinator

Neighborhood House Charter School District | Dorchester, MA | October 2023 – July 2024

- Spearheaded onboarding and rostering efforts over a short period, achieving enhanced reliability and uptime of educational tools for 700+ students
- Recommended cost-saving instructional technologies, reducing licensing expenses through strategic planning and implementation, improving cost efficiency
- Redesigned exam coordination processes for MCAS, ACCESS, and AP exams to improve testing accommodations and compliance, enhancing reliability/uptime
- Enhanced strategic planning by increasing staff survey participation, resulting in improved support and resolution for key stakeholders
- Analyzed assessment data to identify academic gaps, guiding curriculum adjustments for improved student outcomes, enhancing quality/defects

Data and Evaluation Associate

The Steppingstone Foundation | Boston, MA | June 2022 – October 2023

- Standardized 30 years of student and program data, improving retrieval time and analytic reliability
- Transitioned legacy system data to Salesforce, ensuring accurate data mapping and staff training for successful adoption/engagement
- Designed and delivered dashboards and visual reports for internal use and to communicate with funders.
- Developed and implemented automated reports, increasing reliability and uptime of evaluation data, supporting informed decision-making, and reducing support requests

Graduate Research Assistant

MAPLE Lab, Worcester Polytechnic Institute | Worcester, MA | August 2020 – May 2022

- Collaborated on studies of computational thinking, operand positioning, and digital math platforms, using analytical skills to enhance research outcomes.
- Executed UX experiments on online tools like Graspable Math, enhancing user engagement and tool effectiveness
- Cleaned and analyzed datasets using Python, SPSS, and JASP, contributing to peer-reviewed publications

Graduate Teaching Assistant

Worcester Polytechnic Institute | Worcester, MA | August 2020 – May 2021

- Managed Canvas LMS for three graduate-level education courses, ensuring seamless student experience and grading assignments efficiently, improving support/resolution
- Delivered guest lectures on education equity to two sections, receiving positive student feedback, and enhancing teaching skills

Undergraduate Research Assistant

ALT Lab, Worcester Polytechnic Institute | Worcester, MA | August 2017 – August 2020

- Conducted experimental research on embodied cognition and gesture-supported learning, contributing to enhanced understanding of learning processes
- Created and tested math content for the intelligent tutoring system MathSpring, incorporating student feedback to improve user engagement and learning outcomes
- Analyzed behavioral data with SPSS and R; co-authored research posters and manuscripts

SKILLS

Technical & Programming: Python (NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, Plotly) | R | JavaScript (D3) | HTML

Statistical & Research Tools: SPSS | JASP | NVivo | ATLAS.ti | Qualtrics | Mixed Methods Research | Program Evaluation | Survey Design | Thematic Analysis

Data Visualization & Reporting: Tableau | Excel | Google Sheets | Data Storytelling | Dashboard Creation

Education & CRM Systems: Salesforce | Canvas | Learning Analytics | Student Information Systems (SIS)

Core Competencies: Data Cleaning & Wrangling | Statistical Analysis | Documentation & Reporting | Equity-Focused Educational Research | Evidence-Based Decision Making

Project & Productivity Tools: Microsoft Office | Google Workspace | Trello | Monday | Agile Project Management

Languages: Spanish (Proficient)

PUBLICATIONS

Arroyo, I., Euredjian, A., **Lacera, L.P.**, Allessio, D., Geremías, W., Woolf, B.P. (2023). *Localizing a Mathematics Tutoring System to Spanish in Latin-America*. ICITS 2023. Springer.

Skorinko JLM, DiGiovanni C, Rondina K, Tavares A, Spinney J, Kobeissi M, **Lacera LP**, Vega D, Beatty P, John M-S, and Doyle A (2023). *The effects of perspective taking primes on social tuning of explicit and implicit views toward gender and race*. Frontiers in Psychology.

Ngo, V., **Perez Lacera, L.**, Closser, A., & Ottmar, E. (December 2022). *The effects of operator position and superfluous brackets on student performance in simple arithmetic*. Journal of Numerical Cognition.

PROFESSIONAL AFFILIATIONS

Member, American Educational Research Association (AERA) | January 2025 - Present

Elemental Member, American Association for the Advancement of Science (AAAS) | January 2025 - Present

Member, National Partnership for Educational Access (NPEA) | June 2022 - Present