

CONTACT

Alessia.marigo@gmail.com

856-278-9760

Technical SKILLS

- State Standards
- Next Generation Science Standards
- Assessment Development and Design
- Curriculum Development
- Research
- Teacher Development
- Computer Skills (G Suite, Microsoft Office 365)
- Coding Skills: Axure, Canva, Vyond, Power Automate, Power Shell
- Reporting and Data Analysis: Excel, Power BI
- Organizational Skills (Confluence, Jira, Trello)

Scientific Publications

- 29 papers authored in international journals
- 22 papers on international conferences & proceedings
- 12 presentations at international conferences
- *Google Scholar*: 1,294 citations, h-index 20

Alessia Marigo

ASSESSMENT AND LEARNING SPECIALIST - MATH

I am passionate about creating interactive, engaging, and accessible content for the learner.

WORK EXPERIENCE

WISCONSIN CENTER FOR EDUCATION RESEARCH, UW-MADISON

Simulation Lab Assessment Innovation Specialist

2025-present

- Automation of processes
- AI generation of simulation tasks
- AI scoring and feedback
- AI powered simulations
- Planning and development of IT solutions for the SimLab

EDUCATIONAL TESTING SERVICES, PRINCETON, NJ

ASSESSMENT SPECIALIST IV

2014–2024

- New Product Development as team leader and subject expert
 - scenario-based and simulation-based performance tasks for teacher professional development and for K-12 students
 - assessment of professional practices
 - innovative formative and summative assessment for K-12
 - AI supported scoring and feedback
 - development of digital tools to support math learning and assessment
- Worked collaboratively across teams with content specialists, researchers, designers, IT, product owner, product manager, and business and marketing divisions
- Led content teams for item development and form assembly for teacher licensure, K-12 state assessments, higher ed assessment, National and International research assessments.
- Data analysis to support business operation units.

LEAP ACADEMY CHARTER SCHOOL, CAMDEN, NJ

DEAN OF STEM K-12

2011–2014

Responsibilities included:

- Aligning curriculum for STEM content areas to Common Core Standards and Next Generation Science Standards
- Creating formative assessments
- Supervising, hiring, training, coaching STEM teachers
- Planning intervention programs and enrichment classes
- Managing the STEM and Business programs
- Promoting research-based instructional strategies
- Leading professional development for teachers and admins
- Promoting professional learning communities
- Working as State Test Coordinator
- Analyzing student's assessment data to inform instruction.

Competencies

- Adaptability
- Dependability
- Management Skills
- Problem Solving
- Teamwork Skills
- Creativity
- Leadership

Languages

- English (second language)
- Italian (mother tongue)
- French (colloquial)

LEAP ACADEMY CHARTER SCHOOL, CAMDEN, NJ

CONSULTANT FOR MATHEMATICS CURRICULUM AND INSTRUCTION
2010–2011

Responsibilities included revising and aligning the mathematics curriculum to CCSS and teachers' professional development

PREVIOUS ACADEMIC WORK EXPERIENCE

FACULTY OF ARTS AND SCIENCE, RUTGERS UNIVERSITY IN CAMDEN

RESEARCH ASSOCIATE

2009–2011

INSTITUTE FOR APPLICATIONS OF CALCULUS “MAURO PICONE”, CENTER FOR NATIONAL RESEARCH, ITALY

RESEARCH ASSOCIATE

2001–2009

INTERNATIONAL SCHOOL FOR ADVANCED STUDIES, TRIESTE, ITALY

POST-DOCTORAL RESEARCHER

1999–2001

Post-doctoral scholar and research associate responsibilities included: research activity in applied and pure mathematics, teaching graduate and undergraduate courses (including Calculus, Differential Equations, and Discrete Math), and supervising bachelor, master's, and PhD theses.

EDUCATION

PHD IN ROBOTICS 1995 - 1999

RESEARCH CENTER “E. PIAGGIO”, UNIVERSITY OF PISA, ITALY

Coursework: engineering systems and design, automation, differential geometry, control theory, and robotics.

Research topics: controllability and motion planning applied to robotic manipulation, reachability, feedback quantization, and planning applied to digital and finite-communication bandwidth control.

Postgraduate student 1995

INSTITUTE DE ANALYSE DIFFERENTIELLE, UNIVERSITE PIERRE ET MARIE CURIE, FRANCE

Coursework: Geometric Control Theory

BACHELOR'S DEGREE IN MATHEMATICS 1989 - 1994

UNIVERSITY OF PISA, ITALY

Publications, presentations, and posters(Education)

- Mikeska, J.N., Beigman Klebanov, B., Marigo, A., Tierney, J., Maxwell, T. & Nazaretsky, T. (in press). Exploring the potential of automated and personalized feedback to support science teacher learning. In *Proceedings of the 25th International Conference on Artificial Intelligence in Education. Recife, Brazil.*
- Tierney, J., Maxwell, T., Cisterna, D., Baehr, B., Marigo, A., Mikeska, J., Kanagaki, N.; Beigman Klebanov, B. (in review). Creating personalized feedback reports powered by artificial intelligence to support teacher learning of core learning practices. *Connections, An official AMTE publication for the mathematics teacher education community.*
- Maxwell, T., Marigo, A., Tierney, J., Beigman Klebanov, B., Mikeska, J.N., Nazaretsky, T., & Pham, D. (2023). Ready for your first day of school? Exploring how AI can support teacher learning. AI@ETS channel.
- Mikeska, J.N., Marigo, A., Tierney, J., Maxwell, T., Pham, D., & Beigman Klebanov, B. (in development). Exploring automated evaluation of teacher attention to student ideas during argumentation-focused science discussions. *Journal of Science Teacher Education.*
- Mikeska, J.N., Tierney, J., Kanagaki, N., Lottero-Perdue, P., Marigo, A., Maxwell, T., Miller, K. & Kinsey, D. (in development). Supporting elementary teachers' use of culturally responsive pedagogy with scenario-based performance tasks. Research Institute, ETS. *Science Education.*
- Mikeska, J.N., Steinberg, J., Maxwell, T., Marigo, A., Pham, D., Lai, V., & Nguyen, T. (in development). Exploring the argumentation features of mathematics and science discussions within online simulated teaching experiences. *The Elementary School Journal.*
- Mikeska, J.N., Beigman Klebanov, B., Marigo, A., Tierney, J., Maxwell, T. & Nazaretsky, T. (2024, July 8-12). Exploring the potential of automated and personalized feedback to support science teachers in learning how to attend to student ideas equitably and responsively. [Paper presentation.] Artificial Intelligence in Education Annual Meeting, Recife, Brazil.
- Mikeska, J.N., Tierney, J., Kanagaki, N., Lottero-Perdue, P., Marigo, A., Maxwell, T., Miller, K. & Kinsey, D. (2024, March 17-20). *Supporting elementary teachers' use of culturally responsive pedagogy with scenario-based performance tasks.* [Paper presentation.] National Association for Research in Science Teaching Annual Meeting, Denver, CO.
- Marigo, A., Maxwell, T., Tierney, J., Mikeska, J.N., Beigman Klebanov, B., & Bozzone, M. (2023, December 19). Solutions integration to provide automated and personalized feedback for supporting teacher learning of key teaching competencies. [Presentation]. *ETS's Lunch and Learn Series.*
- Mikeska, J.N., Marigo, A., Tierney, J., Maxwell, T., Pham, D., & Beigman Klebanov, B. (2024, March 17-20). *Exploring automated evaluation of teacher attention to student ideas during argumentation-focused science discussions.* [Poster presentation.] National Association for Research in Science Teaching Annual Meeting, Denver, CO.
- Mikeska, J.N., Marigo, A., Tierney, J., Maxwell, T., & Beigman Klebanov, B. (2024, March 17-20). *Using artificial intelligence to generate feedback reports about teachers' ability to attend to student ideas equitably and responsively.* [Poster presentation.] National Association for Research in Science Teaching Annual Meeting, Denver, CO.
- Mikeska, J.N., Beigman Klebanov, B., Tierney, J., Marigo, A., & Maxwell, T. (2024, September). *Using natural language processing to generate personalized feedback to support teacher learning of key teaching competencies.* [Poster presentation.] NCME Special Conference on Classroom Assessment, Chicago, IL.