

# Anna Karina Monteiro, Ph.D.

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## EDUCATION

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Teachers College, Columbia University, New York, NY

**Ph.D. in Science Education, Urban Concentration**

*May, 2015*

Dissertation: "Facilitating Cultural Border Crossing in Urban Science Classrooms"

Teachers College, Columbia University, New York, NY

**M. Phil. in Science Education**

*February, 2015*

Kean University, Union, NJ

**M.A. in Curriculum and Instruction: Science Education**

*May, 2009*

Thesis: "The Use of Concept Mapping as an Assessment Tool in Urban Science Classrooms"

University of Connecticut, Storrs, CT

**B.A. in Biological Sciences, Minor: Gerontology**

*May, 2007*

## CERTIFICATIONS

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**Supervisor Standard, Dept. of Education, State of New Jersey**

*June, 2010*

**End-of Course Biology Performance Assessment Scorer, NJPAA**

*May, 2009*

**Teacher of Advanced Placement Biology, College Board**

*August, 2008*

**Teacher of Biological Sciences Standard, Dept. of Education., State of New Jersey**

*June, 2008*

## TEACHING, CONSULTING AND CURRICLUM DEVELOPMENT

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Knowles Teacher Initiative, Moorestown, NJ

**Associate Director of Senior Fellows Program**

*June 2022-Present*

Oversees all activities associated with Senior Fellows program, including visioning, program development, evaluation fiscal management and staffing. Manage a team of five Program Officers and lead efforts to refine a unifying vision for the Senior Fellows Programs. Works with CEO to provide updates to the Board of Trustees on the Senior Fellows Program.

Relay Graduate School of Education, New York, NY

**Science Curriculum Design Consultant**

*July 2019-June 2022*

Contribute expertise in content knowledge and pedagogical content knowledge to the design of curriculum for Relay's two-year M.A.T. Science Education Program including surveying the field or research base to align and identify course objectives, and the design of key learning experiences for in-person and online courses.

Knowles Teacher Initiative, Moorestown, NJ

**Program Officer for Teacher Development**

*July 2016-May 2022*

Design and implement comprehensive and cohesive professional development for over 70 math and science teaching fellows focusing on practitioner inquiry and increasing students' opportunities to learn; participate on the coaching and mentoring committee and technology committee; review and approve grants; and participate in the annual selection process of Teaching Fellows. Course instructor for Knowles Academy.

US Satellite Laboratory, NASA/Columbia University Collaboration, Rye, NY

**Graduate Instructor: Action Research in the STEM classroom**

*July 2012-Present*

Supported students as they designed, implemented, and analyzed educational research with the intent of publishing by reviewing and editing their research.

**Course Developer and Instructor: Culturally Relevant Pedagogy in the STEM Classroom**

*Jan. 2016- Present*

Developed syllabus and course structure relating to diversity and equity issues in STEM education.

East Side High School, Newark, NJ

**Teacher of Biological Sciences**

*Sept. 2007-June 2016*

Teacher of advanced placement biology, honors biology, general biology and environmental science. Rated as "highly effective" in annual evaluations consecutively since 2010.

Newark Public Schools, Newark, NJ

**Lead Curriculum Developer: Biology**

Lead K-12 revisions of all science curriculum to align with the NGSS and Common Core.

Design and implement professional development to familiarize teachers with new standards and curricular expectations.

*Summer 2014-2015*

The STEM Teachers' Action Research Journal (STAR), Rye, NY

**Primary Editor**

Review and select manuscripts for publication in STAR Journal. Provide guidelines and support to authors in preparing and submitting manuscripts.

*Jan. 2013-2014*

Montclair State University, Montclair, NJ

**Graduate Instructor: Curr. 561, Inquiry into Learning, Teaching and Schooling**

Teach a course for the Newark Montclair Urban Teacher Residents. Responsibilities included course development, teaching, co-facilitating instructional rounds, action research, co-facilitating mentor meetings and professional development.

*Sept. 2013- June 2014*

ACT, Inc., Iowa City, Iowa

**Consultant: Content Reviewer & Questions Writer**

Review and revise questions used on the ACT biology assessment. Verifying standard alignment and validity. Create and develop performance task and multiple choice biology assessment items.

*June 2012- June 2014*

## SCHOOL LEADERSHIP EXPERIENCE

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East Side High School, Newark, NJ

**School Improvement Panel Teacher Member**

Observe and provide constructive feedback and mentor to teachers on Corrective Action Plans. Analyze teacher evaluation data, identify areas of growth, and design and implement school wide professional development.

*Sept. 2014- June 2016*

**Lead Biology Teacher**

Develop common lessons, units and assessments for all biology teachers. Define and track student learning goals and analyze assessment data from all students taking biology.

*Sept. 2009-2016*

**Professional Development Committee**

Plan, prepare and present professional development workshops for the school and department.

*Sept. 2009- June 2012*

**Head Robotics Coach, FRC Team 1811**

Support students in using engineering fundamentals in the planning, manufacturing, and assembly of a FRC competitive robot. Oversee co-coaches, organize travel and obtain funding through sponsorship and fundraising for competitions. Manage team budget.

*Sept. 2008-June 2016*

**Interdisciplinary Curriculum Development Team**

Design and implement cross curricular units with math, english and social studies teachers.

*Nov. 2008 – June 2011*

Newark Montclair Urban Teaching Residency, Montclair, NJ

**Lead Mentor Teacher for 6 Resident Graduates**

Mentor residents for one full year, participate in developing and creating curriculum, and observe and evaluate resident performance during their residency and induction years using the RTOP evaluation tool.

*Sept. 2010- June 2014*

## OTHER INSTITUTIONAL COLLABORATIONS

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New Jersey Institute of Technology, Newark, NJ

**C2Prism:Promoting Research Integrating Science and Mathematics Cooperating Teacher**

An initiative funded by NSF that combines PhD level research in the STEM fields and high school teaching at a fundamental level.

*2009-2010*

Smithsonian Institution of the National Academies, Washington D.C.

**RxeSearch: An Educational Journey Teacher Team Leader**

2009-2010

Lead and implement an inquiry based curriculum on the research and development of a pharmaceutical drug. Developed and funded by National Science Resources Center. Led a group of four teachers across content areas in implementing the curriculum.

Rutgers University (formally UMDNJ), Newark, NJ

**Cooperating Teacher**

2008-2009

Hosted a SMART Master's student and collaborated on developing engaging and rigorous lessons with a goal of increasing the number of underrepresented students in the health science fields.

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PEER REVIEWED PUBLICATIONS

**Book Chapters**

Larkin, D., **Monteiro, A.K.**, Poole, S. (2015). Science pedagogical content knowledge development in an urban teacher residency. In M. Taylor & E. Klein, *A year in the life of an urban teacher residency program: Using inquiry to re-invent math and science education*. Rotterdam, The Netherlands: SensePublisher.

Klein, E. J., Monteiro, A.K. Kallai, K.S., Romney, W., Abrams, L. (2015) Articulating the intimate knowledge of teaching: mentors and faculty design protocols to explore video artifacts of teaching, *A year in the life of an urban teacher residency program: Using inquiry to re-invent math and science education*. Rotterdam, The Netherlands: SensePublisher.

Taylor, M., DeAntonio, M., **Monteiro, A. K.**, Morales, C. M., Santos, M. (2015). Fostering change through socially just teacher leadership. In M. Taylor & E. Klein, *A year in the life of an urban teacher residency program: Using inquiry to re-invent math and science education*. Rotterdam, The Netherlands: SensePublisher.

**Peer Reviewed Publications**

Klein, E.J., Taylor, M., Abrams, L., **Monteiro, K.**, Romney, W., Scipio, M. Diaz, A., Dunn, B., Poole, S (in press). Making the leap to teacher: Pre-service residents, faculty and school mentors taking on action research together in an urban teacher residency program, *Networks: An online journal for teacher research*.

Klein, E.J., Taylor, M., **Monteiro, A.K.**, & Romney, W. (2013). *Making the leap to teacher: Pre-service residents, faculty, and school mentors taking on action research together in an urban teacher residency program*. In Taylor, M. & Strom, K. (Chairs). *Building systemic and sustainable educational change in a third space: A multi-dimensional view of an urban teaching residency*. Paper presented at the American Educational Research Association, San Francisco, Ca.

Taylor, M., Abrams, L., Klein, E., Wray, S., Cordero, E., Silva, J., Famularo/Blazquez, T., Scipio, M., Scott, K., Panitch, A., Romney, W., Brown, C., Barzaga, B., Mooney, E. Rozek, T., Lidman, L., Abreu, I., **Monteiro, A.**, Rincon, R. (2012). Shape Shifting or Becoming Third Space Teacher Educators?: A Co/Autoethnographic Self-Study of Mentors and Faculty. In L. B. Erickson, J. R. Young, S. Pinnegar (Eds.), *Proceedings of the 9th International Conference on Self Study of Teacher Education Practices*, East Sussex, England. Provo, UT: Brigham Young University.

Taylor, M., Klein, E., **Monteiro, K.**, Cuellari, R. & Strom, K. (2011). *The Newark Montclair urban teacher residency program: Opening a third space to promote quality education for all*. Paper presented at the National Network for Educational Renewal Conference, Hartford, CT.

Blank, T. O., Schmidt, S. D., Vangsness, S. A., **Monteiro, A.K.**, Santagata, P.V. (2010) Differences among breast and prostate cancer online support groups. *Computers and Human Behavior*, 26:6, 1400-1404.

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INVITED CONFERENCES AND SCHOLARLY PRESENTATIONS

**Monteiro, A.K.** *Equitable groupwork: Increase access to learning opportunities with actionable norms*. Presented at the New Jersey Science Convention. Princeton, NJ (October 2012).

Cheyne, M., & **Monteiro, A.K.** *Increasing opportunities for equitable access in groupwork for all students*. Presented at the New Jersey Science Convention. Princeton, NJ (October 2019).

Cheyne, M., **Monteiro, A.K.**, Kline, L. & O'Brien, B. *Complex instruction in the biology classroom: Using equitable teaching strategies to increase students' opportunities to learn*. Short course presented at the National Association of Biology Teachers Professional Development Conference, St. Louis, MI. (November, 2017)

Larkin, D.B, Johnston, D., Hnatzuk, O., Mooney, E., and **Monteiro, A.K.** Core Practices of High-Quality Cooperating Teachers and Mentors in Science Classrooms. Panel discussion at the New Jersey Science Convention. Princeton, NJ (15 October 2013)

- Klein, E.J., Taylor, M., Crooms, C., Hnatzuk, O, **Monteiro, A.K.**, Mooney, E., Scott, K.. Building reflective practice together in an urban teacher residency: Mentors, faculty, and residents design protocols to examine video artifacts of teaching. Paper presented at the Ethnography in Education Forum, Philadelphia, PA. (February, 2013)
- Taylor, M., Abrams, L., Klein, E., Wray, S., Strom, K., Cordero, E., Silva, J. Famularo/Blazquez, T., Scipio, M., Scott, K., Panitch, A., Romney, W., Brown, C., Barzaga, B., Mooney, E., Rozek, T., Lidman, L., Abreu, I., **Monteiro, A.**, Rincon, R.. Shape Shifting or Becoming Third Space Teacher Educators?: A Co/Autoethnographic Self-Study of Mentors and Faculty. Paper presented at the 9th International Conference on Self Study of Teacher Education Practices, a Special Interest Group of the American Educational Research Association, East Sussex, England. (August, 2012)
- Taylor, M., Klein, E., **Monteiro, K.**, Cuellari, R. & Strom, K. *The Newark Montclair Urban Teacher Residency Program: Opening a Third Space to Promote Quality Education for All*. Paper presented at the National Network for Educational Renewal Conference, Hartford, CT. (October, 2011)
- Monteiro, A.K.** & Lesperance, R. "Portfolio's as a Means of Alternative Assessment" *Montclair State University Summer Conference* (June, 2011)
- Monteiro, A.K.** & Lesperance, R. "A Scaffolded Approach to Planning Investigations in an Urban Science Classroom: An Action Research Study." Paper presented at the National Association of Research in Science Teaching conference, Baltimor, MD (April, 2016).
- Blank, T. O., Scmidt, S. D., Vangsness, S. A., **Monteiro, A.K.**, Santagata, P.V. "Usage of Internet Support Group for Cancer Patients" *The Gerontological Society of America 60<sup>th</sup> Annual Scientific Conference*. San Francisco, CA (November, 2007)

## LANGUAGES

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English and Portuguese- Native Fluency  
Spanish- speak, read, and write with basic competence

## MEMBERSHIPS

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National Science Teachers Association  
National Association for Research in Science Teaching