

Curriculum Vitae

Laura S. Rodriguez

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Laura Rodriguez is an assistant professor of science education at Eastern Connecticut State University. Her journey in education began as a Peace Corp volunteer in Ecuador, South America where she realized the impact that education can have on people's lives. Her K-12 teaching career spanned more than 20 years teaching grades four to ten in four states although the majority of her time was devoted to middle school science. In her teaching career, she developed integrated STEM project-based learning units, which were aligned with the Next Generation Science Standards, math and English common core standards. As a graduate research assistant, she worked on a study funded by the National Science Foundation titled: *Promoting lifelong STEM learning through a focus on geospatial technology and community engagement*. A lifelong STEM learner herself, her research focus is on the development of a disciplinary identity as a STEM learner throughout the lifespan. She has initiated and developed partnerships with non-profit organizations such as Willimantic Whitewater Partnership, Trout Unlimited, UCONN Engineering Ambassadors and Louis Stokes Alliance for Minority Participation (LSAMP).

Education

Doctorate	Anticipated 2020	University of Connecticut, Storrs, CT Curriculum and Instruction
M.A.T.	1991	Wayne State University Detroit, MI Science Education
B.A.	1983	Boston University, Boston, MA Biology

Professional Experience

Graduate Research Assistant	2017 - 2019	University of Connecticut Storrs, CT
Graduate Teaching Assistant	2017 - 2018	University of Connecticut Storrs, CT
Seventh Grade STEM Teacher	2014 - 2017	Charles H. Barrows STEM Academy North Windham, CT
Middle School Science Teacher	2002 - 2014	Hall Memorial School Willington, CT
Middle School Science Teacher	2000 - 2002	Mauldin Middle School Simpsonville, SC
Elementary Teacher	1998 - 2000	Brushy Creek Elementary School Taylors, SC

High School Biology and Physical Science Teacher	1997 - 1998	Southside High School Greenville, SC
Middle School Science Teacher	1989 - 1992	Blendon Middle School Westerville, OH
Freshwater Fisheries Extension	1983 - 1985	United States Peace Corps Ecuador, South America

Publications

Park, B., **Rodriguez, L.**, Campbell, T. (2019) Using Models to Teach Science? *The Science Teacher*. Nov 2019

Luehmann, A., Zhang, Y., Boyle, H., Campbell, T., **Rodriguez, L.**, & Lundgren, L., (2019) Mentoring core practices. Invited chapter in D. Stroupe, Hammerness, K., McDonald, S. (Eds.), *Preparing Science Teachers through Practice-Based Teacher Education*. Boston, MA: Harvard Press.

Rodriguez, L. (2018) From interest to identity: Creating and nurturing STEM kids in middle school, *Science Scope*. 4(3), 79-85.

Ross, D., Campbell, T., McKenna, T. J., Schilling, V., **Rodriguez, L.**, & UConn Mentor Teacher (2018) Collaborative. Supporting preservice teachers with task-based instruction. *STEM Teaching Tools*. <http://stemteachingtools.org/brief/52>

Rodriguez, L. (2010) Hunting for caterpillars: Investigations in the natural world and the laboratory. *Connecticut Journal of Science Education*. Spring/Summer Edition.

Manuscripts under Peer Review

Rodriguez, L., Morzillo, A., Volin, J., & Campbell, T. Conservation Science and Technology Identity Instrument: Empirically Measuring STEM Identities in Informal Science Learning Programs. *School Science and Mathematics*. (Submitted January 18, 2019).

Campbell, T., **Rodriguez, L.**, Moss, D.M., Volin, J., Arnold, C., Cisneros, L.M., Chadwick, C., Dickson, D., Rubenstein, J.M. & Abebe, B. Intergenerational community land-use projects, STEM identity authoring, and positioning: The cases of two intergenerational teams. *The Journal of the Learning Sciences*. (submitted September 27, 2019)

Other Publications Under Review (Not Blind Peer Review)

Campbell, T., McKenna, T. J., An, J., **Rodriguez, L.** A responsive methodological construct for supporting learners' developing modeling competence in modeling-based learning environments. Invited chapter in D. Krüger, J. van Driel, & A. Belzen (Eds.), *Towards a Framework for Model Competence in Science Education*. Switzerland: Springer International Publishing.

Presentations

Rodriguez, L., Campbell, T., Volin, J., Moss, D. M., Arnold, C., Cisneros, L., Chadwick, C., & Dickson, D. Assessing STEM identities in Intergenerational Informal STEM Programming. Presentation at the 2020 Association for Science Teacher Education (ASTE) Conference. San Antonio, Texas.

- Rodriguez, L.**, Morzillo, A., Volin, J., & Campbell, T. *Teen and Adult STEM Identification in Informal STEM Programming*. Presentation at the 2019 Association for Science Teacher Education (ASTE) Conference. Savannah, GA.
- Rodriguez L.**, Campbell, T., Cisneros, L., Volin, J.C., Arnold, C., Chadwick, C., Dickson, D., Moss, D.M. & Rubenstein, J. (2019) Intergenerational Conservation STEM Learning and Identity. 5th National Science Foundation STEM for All Video Showcase.
URL<<https://stemforall2019.videohall.com/presentations/1465>>
- Volin, J.C., Cisneros, L., Chadwick, C., Dickson, D., **Rodriguez, L.**, Campbell, T., Arnold, C., Moss, D. & Rubenstein, J. (2019) Promoting lifelong STEM learning through conservation, geospatial technology and community engagement. National Science Foundation Advancing Informal STEM Learning PI Meeting, Washington, D.C.
- Cisneros, L.M., Arnold, C., Campbell, T., Chadwick, C., Dickson, D., Moss, D., **Rodriguez, L.**, Rubenstein, J. & Volin, J.C. (2019) Promoting STEM learning through conservation, mapping & community engagement. 13th Connecticut Conference on Natural Resources, Storrs, Connecticut.
- Chadwick, C., Dickson, D., Cisneros, L., Volin, J.C., Arnold, C., Rubenstein, J., Campbell, T., Moss, D. & **Rodriguez, L.** (2019) Kick-Starting conservation with maps, apps, & teens. 13th Connecticut Conference on Natural Resources, Storrs, Connecticut.
- Rodriguez, L.**, Beissinger, A., Cisneros, L., *Teachers Supporting Students as Liaisons between Formal and Informal Science Programs: University of Connecticut's CAP and CTP Programs*. Presentation at the 2018 Connecticut Science Teachers Association (CSTA) conference. Southington, CT.
- Campbell, T., **Rodriguez, L.**, Chadwick, C., Arnold, C., Cisneros, L., Moss, D., Volin, J., Dixon, D., Willig, M., & Kelly, M. (2018, May). Designing and Engaging Teachers in NGSS Educative Curriculum focused on Water and Sustainability Using Models, Investigations, and Online Mapping Tools. Poster presentation at the 2018 Innovating Teaching and Learning in the Food-Energy-Water-Nexus Conference. Washington, D.C.
- Cisneros, L.M., Beissinger, A., Volin, J.C., Arnold, C., Campbell, T., Chadwick, C., Moss, D.M., Dickson, D., **Rodriguez L.** & Rubenstein, J. (2018) Energized teens + local conservation volunteers + geospatial technology = environmental action. New England Environmental Education Alliance Conference, Fairlee, Vermont.
- Campbell, T., Fazio, X., McKenna, T., Perkins, A., Schilling, V., **Rodriguez, L.** *NGSS as a boundary object for constituting a novice science teacher, mentor science teacher, and university science education researcher community of practice*. Presentation at the 2017 National Science Teachers Association (NSTA) National Convention. Los Angeles, California.
- Rodriguez, L.** *How a 1-1 iPad Initiative Translates to the Classroom in Math and Science*. Presentation at 2013 Third Annual UCONN Conference on iPads. Storrs, Connecticut.
- Rodriguez, L.**, O'Donnell, E. *Sister's at Sea: Cooperative Student Projects from NOAA Teacher at Sea Fellows*. Poster Presentation at the 2013 First International Teacher-Scientist Partnership Conference. Boston, Massachusetts.
- Rodriguez, L.** *Junk Box Wars: Revisited*. Presentation at the 2012 Connecticut Science Teachers Association Conference. Hamden, CT.
- Rodriguez, L.** *From the Bayous to the Gulf of Alaska*. Presentation at the 2011 National Science Teachers Association Regional Conference. Hartford, CT.

Fellowships

Teacher Scientist Fellow	2010	NOAA Teacher at Sea Gulf of Alaska
Teacher Scientist Fellow	2008	Earthwatch Pearl River, Louisiana

Service Experience

- ECSU CARE Committee Member 2019 - present
- ECSU Student advising Committee Member 2019 - present
- Doctoral Student Guest Reviewer. *Journal of Literacy Research*. 2017.
- Doctoral Student Guest Speaker. EDCI 3010: Elementary Curriculum Standards and Integration. November 2018.
- County Director. Connecticut Science Teachers Association. 2008 – 2016
- Vice Chair and former Chair and Treasurer. Willington Scholarship Foundation Dollars for Scholars. 2008 - present

Continuing Professional Development

PREEMPTIVE: Advanced Graduate Institute 2019		University of Southern California - Bangkok, Thailand
Introduction to Inquiry for Teaching and Learning	2014 - 2016	The Joyce D. and Andrew J. Mandell Academy for Teachers at the Connecticut Science Center Hartford,
Classroom Applications Workshop Formative Assessment Workshop CT		
Microbiology Chemistry	2007 - 2011	Manchester Community College Manchester, CT
Human Anatomy and Physiology Microsoft Office 2010	2011	Quinebaug Valley Community College Danielson, CT
Integrating School to Work Literature for Young Adults Human Body Systems	1997 - 2001	Furman University Greenville, SC
Advanced Theory and Psychology of Learning	1991 - 1992	Otterbein College Westerville, OH
Instructional Techniques and Strategies Multi-Cultural Education		

Certification

Connecticut Professional Certificate with endorsements in Elementary Education, Biology, and General Science.	2015
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Foreign Languages

Functionally fluent in **Spanish**