
MOLLY TRENDELL NATION

EDUCATION

- | | |
|---|------------------------|
| University of South Florida Ph.D. – Curriculum and Instruction, Science Education | Graduated: August 2017 |
| Georgia Southern University Master of Arts in Teaching – Secondary Education | Graduated: May 2012 |
| Georgia Southern University Bachelor of Science – Biology | Graduated: May 2009 |
-

TEACHING EXPERIENCE

- August 2017-Present – Florida Gulf Coast University, Fort Myers, FL**
Assistant Professor – Environmental Education, Department Ecology and Environmental Studies
Internship Coordinator – The Water School
- Teach undergraduate and graduate level courses and organize internship experiences and course for undergraduates.
- August 2013-2017 – The University of South Florida, Tampa, FL**
Instructor – Elementary, Middle Grades, and Secondary Science Methods
- Supervise and instruct undergraduate and graduate preservice science teachers.
 - Develop and execute syllabus and curriculum for course sections.
- March 2010-July 2013 – Burke County Middle School and Bulloch County High School, Georgia**
High School and Middle Grades Science Teacher - Physical Science, Earth Systems, Biology
-

RELATED EXPERIENCE

Florida Gulf Coast University

July 2018-Present STEM Summer Camp for High School Girls

- Co-facilitator – Developed and implemented summer curriculum with Principal Investigator
- Facilitate paleontempestology student research projects and seminar

University of South Florida

May 2014-March 2015 – Teacher Education for Sustainability Springer Text Development

- Attended monthly editors' meetings
- Assisted with the development of and creation of the literature review and introductory chapter
- Assisted in the editing of submitted chapters from authors

May-July 2014 – Oceanography Camp for Girls, USF College of Marine Science

- Served as a Science Mentor for coastal marine field trips
- Worked with the staff to provide campers with valuable educational experience in a fun, hands-on and informal setting

2013-2017 – University Intern Supervisor

- Supervised Interns in the Teacher Education Program
- Performed observations and evaluations of interns during their final internship
- Served as mentor for developing interns throughout their experience during the internship

21st Century Community Learning Centers

2013 – Program Director

- Facilitated and arranged tutors for the program, assembled lessons plans and compensation information
- Designed curriculum for after-school program and facilitated with implementation
- Arranged field trip and summer opportunities for students and tutors

2011-2013 – Academic Tutor: Supplemental Educational Services

- Provided academic enrichment opportunities during non-school hours for children in low-performing and high-poverty schools.
-

GRANTS AND SPONSORED RESEARCH

2020 – Florida Department of Environmental Protection 319(h) grant \$122,318.00 – Principle Investigator (awarded)

-
- Project FLOW (Future Leaders of Water Quality) Collaboration between Lee County Public Schools and FGCU, Co-PI Dr. Serge Thomas
 - Nonpoint Source Management Program (\$49,603.00 match)

August 2020 – EPA’s Trash-Free Waters \$99,693 (Submitted)

- Debris Free Waters of Southwest Florida Co-PI with Dr. Jen Jones

December 2020 – Advancing Informal STEM Learning (AISL) Program – (Unfunded)

- NSF H2O to Go: Assessing an Academic Social Immersion (ASI) Model Designed to Engage Under-Represented Youth in Environmental-Science, Technology, Engineering, and Mathematics (E-STEM).
- Project collaboration with FAU- outside contributor with Dr. Mike Parsons

Summer 2019 – Communities in Transition, Internal funding \$26,883 – Principle Investigator (awarded)

- Project FLOW (Future Leaders of Water Quality), Co-PI Dr. Serge Thomas

September 2018 – Lee County Electric Cooperative, Inc. and ORSP# 19040 \$3,781 – Principle Investigator (awarded)

- Project FLOW (Future Leaders of Water Quality)

December 2019 – NOAA Building the Environmental Literacy of K-12 Students and the Public for Community Resilience \$435,000 (Unfunded)

- MOPEdS: Modeling our Places to Educate for Sustainability Co-PI with Dr. Heather Skaza Acosta

April 2018 – EPA Office of Environmental Education: EPA-EE-18-04 \$108,000 – Principle Investigator (Unfunded)

- Project FLOW (Future Leaders of Water Quality), Co-PI Dr. Serge Thomas

November 2018 – NOAA Gulf of Mexico Bay-Watershed Education and Training Program (B-WET) \$98,581(Unfunded)

- MOPEdS: Modeling our Places to Educate for Sustainability Co-PI with Dr. Heather Skaza Acosta

2017-2019 – Student Associates for a Greener Environment (SAGE)

- 2018-2019 Graduate Research Award Recipient Mentor
- 2017-2018 Senior Researcher Award Recipient Mentor

2018 – Blair Foundation Scholarship Award Recipient & Seidler Fellow Award Recipient

- Senior Research, Matthew Hale - Project Impacts of Sustainable Values on Personal Actions
- American Geophysical Union presenter December, 2018

2013-2018 – Graduate Research Projects University of South Florida, CHANGE (Climate Change Narrative Game Education) Graduate Research Assistant

- Developed curriculum implemented into the Marine Science Classrooms of Hillsborough County, collecting and analyzing data.
- Organized Advisory Board Meetings, budget, and travel for researchers

2014-2017 – Helios STEM Middle School Residency Program Instructor and University Supervisor and Graduate Assistant

- Attended weekly classes, taking observational data, reviewing data with faculty.
- Developed and implemented curriculum and syllabus.
- Observed and evaluated student residents in the science classroom.

2013-2014 - Robert Noyce STEM Scholars Program Graduate Assistant

- Facilitated and organized materials for the scholars attending meetings and assisting with recruitment.

PUBLICATIONS

Feldman, A., **Nation, M.**, Laux, K. (forthcoming). The Effects of Extended Action Research Professional Development on the Teaching of Climate Science. *Educational Action Research (EAR) on 'Participatory Research to Address Climate Change and Sustainability* (Special Issue)

Nation, M., Feldman, A. (in press). Environmental Education in the Secondary Science Classroom: How Teachers' Beliefs Influence Their Instruction of Climate Change. *Journal of Science Teacher Education*

Nation, M., Thomas, S., *Combs, S., Daniels, E., Talamas, C., Vinjet-Williams, G.* (2020). Improving Water Resilience Through Environmental Education. *The Journal of Sustainability Education Special Issue: Water Resilience.*

Nation M., Feldman A., (in press) Environmental Education Curriculum. *Routledge Encyclopedia of Education*

Dobson, A., Feldman, A., **Nation, M.**, & Laux, K. (2019). Red tide. *The Science Teacher*, 87(1), 35-41. Retrieved from <http://ezproxy.fgcu.edu/login?url=https://search.proquest.com/docview/2261246926?accountid=10919>

Smith, G.G., Besalti, M., **Nation, M.**, Feldman, A. & Laux, K. (2019). Teaching climate change science to high school students using computer games in an intermedia narrative, *Eurasia Journal of Mathematics, Science and Technology Education.*

Feldman, A., **Nation, M.**, Smith, G. G., & Besalti, M. (2017). The use of complementary virtual and real scientific models to engage students in inquiry: Teaching and learning climate change science. In *Optimizing STEM education with advanced ICTs and simulations* (pp. 30-57). IGI Global.

Trendell Nation, M. (2017). How Teachers' Beliefs About Climate Change Influence Their Instruction, Student Understanding, and Willingness to Take Action. Dissertation

Feldman, A., Smith, G., **Nation, M. T.**, & Besalti, M. (2017) The Use of Complementary Virtual and Real Scientific Models to Engage Students in Inquiry: Teaching and Learning Climate Change Science. *Digital Tools and Solutions for Inquiry-Based STEM Learning*

Nation, M.T. & Davis, J. R. (2017). Education for sustainability: A 5E lesson on the water cycle introduces elementary preservice teachers to think about their impacts on Earth's fresh water supply. *Innovations in Science Teacher Education*, 2(1).

Nation, M. T., Feldman, A., & Wang, P. (2015). A RISING TIDE. *The Science Teacher*, 82(6), 34-40.

Feldman, A., & **Nation, M.** (2015). Theorizing Sustainability: An Introduction to Science Teacher Education for Sustainability. In *Educating Science Teachers for Sustainability* (pp. 3-13). Springer International Publishing.

PRESENTATIONS

Nation, M., Jones, J., (2020) The Need for Shared Expectations: Partnering University Research Scientists and Classroom Teachers. Poster presented at the North American Association of Environmental Educators Conference October 13-16, 2020, Virtual.

Jones, J., **Nation, M.**, Skaza-Acosta, H., (2020) Creating A Community of Practice to Connect Environmental Education Stakeholders in Southwest Florida. Presentation accepted at League of Environmental Educators of Florida Annual Conference, March 21, 2020 (Canceled)

Feldman, A., **Nation, M.**, Laux, K., (2019) The effects of extended action research-based professional development on the teaching of climate science. Paper accepted for presentation at Association for Science Teacher Education (ASTE) international Conference, January 3-5, 2019. Savannah, Georgia.

Feldman, A., **Nation, M.**, Laux, K., (2019) The effects of collaborative action research-based professional development on the teaching of climate science. Poster accepted for presentation at American Educational Research Association (AERA) Annual Meeting, April 5-9, 2019. Toronto, Canada.

Nation, M.T., Feldman, A., (2018). The Effects of Extended Professional Development on the Teaching of Climate Science. Poster presented at the North American Association of Environmental Educators Research Symposium, October 9-10, 2018, Spokane, WA.

Smith, G.G., Besalti, M., & Feldman, A. **Nation, M.** (2018, November). Computer games in eBooks to teach climate change science, Annual meeting Association of Educational Communications Technology (AECT), Kansas City, MO.

Nation M. T., Enhancing Local Water Quality Education Through Environmental Stewardship. Poster presented at the North American Association of Environmental Educators Conference, October 11-12, 2018. Spokane, WA.

Hale, M., Nation, M. T. (2018) The Impact of Values on Sustainability Actions Among Coastal Populations. AGU Climate Solutions Conferences (CSC): Building Multidisciplinary Climate Change Solutions, Education, Communications Partnerships II Posters, December 10-13, 2018, Washington, D.C.

Feldman, A., **Nation, M.T.**, Smith, G. (2018). "Collaborative Action Research for the Improvement of the Teaching of Climate Science". Paper accepted for presentation at the Annual Meeting of the Action Research Network of the Americas, June 28 – 30, 2018 La Jolla, California from.

Nation, M.T., Feldman, A., Smith, G. (2018). How Teachers' Beliefs About Climate Change Influence Their Instruction, Student Understanding, and Willingness to Take Action. Paper accepted for presentation at the Association for Science Teacher Education Conference (ASTE), January 3-6, 2018, Baltimore, MD.

Nation, M.T., Feldman, A., Smith, G. (2017). How Teachers' Beliefs About Climate Change Influence Their Instruction and Resulting Student Outcomes. Paper accepted for presentation at the American Geophysical Union Fall Meeting (AGU), December 11-14, 2017, New Orleans, LA.

Smith, G., Lou, Y., Feldman, A., Wang, P., Chen, Y., **Nation, M. T.**, Walker, C., & Besalti, M. (2016). Computer Games in a Science Fiction Novel to Learn Climate Change Science. Paper accepted for presentation at the Annual Conference of American Educational Research Association (AERA), April 8-12, 2016 Washington D.C.

Nation M.T., (2016). Examining Beliefs about how students learn Science and instructional practices among a triad. Paper accepted for presentation at the National Association for Professional Development Schools. (NAPDS) March 3-6, 2016, Washington, D.C.

Nation, M.T., Feldman, A., Smith, G., Wang, P., Lou, Y., (2016). Uncovering high school students' knowledge and beliefs about climate change to inform the development of embedded curriculum materials. Paper accepted for presentation at the International Meeting of Association for Science Teacher Education (ASTE), January 7-9, 2016, Reno, Nevada.

Keene, A., Flanagan, T., Leotta, A., Feldman, A., Smith, G., Lou, L., **Nation M.T.** (2015). CHANGE the Way You Teach Climate Change. Presentation at the Annual Meeting of Florida Marine Science Educators Association (FMSEA), April 30- May 3, 2015, Tampa, Florida.

Lou, Y., Smith, G., Feldman, A., Wang, P., Tanner, O., Davis, D., **Nation, M. T.**, & Moon-Michel, L. (2015). *High school student interest and learning of climate change science via local, place-based narrative games*. Paper accepted for presentation at the Annual Conference of American Educational Research Association (AERA), April 16-20, 2015, Chicago, Illinois.

Lou, Y., Smith, G., Feldman, A., Wang, P., Tanner, O., Davis, D., Nation, M. T., & Moon-Michel, L. CHANGE Lou, Y., Smith, G., Feldman, A., Wang, P., Tanner, O., Davis, D., **Nation, M. T.**, & Moon-Michel, L. *CHANGE the Way You Teach Climate Change: The Link Between Red Tide and Climate Change*. Regional Conference National Science Teachers Association (NSTA), November 5-8, 2014 Orlando, FL

*underlined and italicized indicates student collaborator

REVIEWER

(2020) *Applied Environmental Education & Communication*

(2020) *Educational Action Research*

(2019) *Journal of Sustainability Education*

(2018) *JOURNAL OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION*

NEWS AND MEDIA

- (2020) FGCU, Lee County Schools partnership hopes to inspire next generation of water researchers <https://www.winknews.com/2020/02/19/fgcu-lee-county-schools-partnership-hopes-to-inspire-next-generation-of-water-researchers/>
- (2020) ABC 7 Six Lee County teachers take part in field research with FGCU water research assistant <https://www.abc-7.com/story/41733421/six-lee-county-teachers-take-part-in-field-research-with-fgcu-water-research-assistant>
- (2020) FOX 4 News Literacy Project: Lee County students learn importance of media literacy: <https://www.fox4now.com/news/protecting-paradise/fox-4-news-literacy-project-lee-county-students-learn-importance-of-media-literacy>

-
- (2019) Hey graduates, get the picture: Glitter is litter: <https://fgcu360.com/2019/12/02/hey-graduates-get-the-picture-glitter-is-litter/>
 - (2019) Eagle Connect Alumni – the 2019 40 Under 40: <https://news.georgiasouthern.edu/magazine/2019/12/14/meet-our-40-under-40/>
 - (2019) Girl power: Lee, Collier teens fuel their passion for STEM at FGCU summer camp: <https://www.news-press.com/story/news/education/2019/07/03/girl-power-lee-collier-teens-fuel-passion-stem-summer-camp/1616284001/>
 - (2019) FGCU camp encourages girls to pursue STEM careers: <https://www.fox4now.com/news/protecting-paradise/fgcu-camp-encourages-girls-to-pursue-stem-careers>
 - (2019) Free STEM Summer Camp for High School Girls: <https://news.wgcu.org/post/free-stem-summer-camp-high-school-girls>
 - (2019) What will SWFL's climate be in 60 years with climate change?: <https://www.nbc-2.com/story/39983392/what-will-swfls-climate-be-in-60-years-with-climate-change>
 - (2019) FGCU, Lehigh schools team up to teach kids about water quality: <https://www.abc-7.com/story/40024190/fgcu-lehigh-schools-team-up-to-teach-kids-about-water-quality>
 - (2018) Blair Foundation scholarships fuel research opportunities: <https://fgcu360.com/2018/10/31/blair-foundation-scholarships-fuel-research-opportunities/>
-

COURSES TAUGHT

EVR 4924 – Environmental Education (Fall 2017, Spring 2018, Fall 2018, Fall 2019, Fall 2020)
EVR 5925 – Environmental Education graduate elective (Fall 2019, Fall 2019)
EVR 4920 – Current Topics: Climate Change & Gentrification (Fall 2020)
ISC 3154C – Environmental Research Design (Fall 2019, Spring 2020, Summer 2020)
EVR 4940 – Internship in Environmental Studies (Fall 2019, Spring 2020, Summer 2020, Fall 2020)
ISC 4940 – Internship in Interdisciplinary Natural Sciences (Spring 2018, Fall 2019, Summer 2020, Fall 2020)
EVR 3712 – Regional Environmental Studies (Spring 2018, Summer 2018, Fall 2019)
EVR 1001C – Introduction to Environmental Sciences (Spring 2019, Summer 2019)
EVR 4910 – Senior Project Research Environmental Studies (Summer 2018, Summer 2019)
EVR 4911 – Senior Presentation Environmental Studies (Summer 2018, Summer 2019, Summer 2020)
BSC 4910C – Senior Project I: Research (Fall 2019)
BSC 4911 – Senior Project II: Presentation (Spring 2020)

SERVICE

-
- FGCU Intercollegiate Athletics Committee Member, 2018-Present
 - United Faculty of Florida Executive Committee Senator, 2019-Present
 - FGCU Internship Leadership Team 2019-Present
 - SAGE Grant reviewer 2019- Present
 - Fulbright Reviewer Panel 2020
 - Estero Bay Educators Working Group 2020-Present
 - Watershed Lee County Public Schools Teacher Leadership Academy Committee, 2020
 - CESE Strategic planning committee 2019-2020
 - SURIS symposium Judge and Planning Committee 2019-Present
 - Teacher Training Workshop Lee County Mosquito Control, December 2019
 - Search committee member, Coastal Adaptation World Class Faculty, 2020; Director of the Center for Environmental and Sustainability Education, 2019
 - Dissertation Committee Member – Chad Evers Ed.D., 2020
 - Thomas Edison STEM Fair Grand Judge, 2018, 2020
 - Ecology and Environmental Studies Graduate Faculty, 2018-Present
 - Center for Multicultural Development Diversity and Inclusion Certificate Program, 2019-Present
 - Marine and Ecological Sciences Planning Committee Chair 2018-Present
 - NAAEE Annual Conference Submission Reviewer, 2018
 - Lucas Center Course Design Academy, 2018
 - Environmental Education Alliance of Southwest Florida Member, 2017-Present
 - NOAA's Coastal Adaptation Workshop Attendee, 2018
 - Lucas Center Faculty Learning Community Attendee, 2017-Present
 - Senior Research Mentor, 2017-Present
 - New Faculty Academy Participant, 2017-2018
 - Teacher Evaluation Training Participant, Fall 2016
 - Co-Teach Workshop HCPS and USF Training, August 2016
-

-
- HCPS PDS Marine Science Teacher Training Workshop Facilitator, August 2016
 - CHANGE NSF Annual Meeting Facilitator, May 2016
 - Leslie Robins Endowment Recipient, 2015-2017
 - Title IX Training Attendee and Certificate Holder, 2015-Present
-

MENTORING

Faculty

Lucas Center New Faculty Academy Mentor Fall 2020

Graduate Students

Jessi Drummond Graduating Fall 2020

Undergraduate Students

Chaquer Talamas – expected graduation December 2020

Sam Sherman – graduated May 2020

Jeffrey Passerello – graduated May 2020

Tyler Panariello – graduated December 2019

Matthew Hale (currently enrolled in Masters of Public Policy at American University) – graduated December 2018
