Zoë R. F. Verlaak

CURRICULUM VITAE	
Email	ZVerlaak@csum.edu
	EDUCATION
2013 – 2019	Ph.D. in Geosciences
Institution	Florida International University, Miami, Florida
Dissertation	"Benthic Foraminiferal Assemblages from Marshes and Mangroves in the Everglades (South Florida, USA), and their Application as Proxies for Habitat Shifts due to Sea Level Rise"; 153 pages; defense: March 2019.
Advisor	Professor Laurel S. Collins
2009 – 2011	Master of Science in Geology (cum laude)
Institution	Ghent University, Ghent, Belgium
Thesis	"A Detailed Analysis of Laminations in the Late Pleistocene Sedimentary Record of
	Laguna Parrillar, Southern Patagonia, Chile"; 176 pages; defense: August 2011.
Advisor	Professor Marc De Batist and Dr. Maarten Van Daele
2004 – 2009	Bachelor of Science in Geology
Institution	Ghent University, Ghent, Belgium
Senior Project	"Onderzoek van de relatie tussen de morfologische variatie van dinoflagellatencysten
	en saliniteit" (Research on the Relationship Between Morphological Variation of Dinoflagellate Cysts and Salinity); 30 pages; defense: November 2008.
Advisor	Professor Stephen Louwye and Dr. Kenneth Mertens
April 2022	PROFESSIONAL CERTIFICATIONS Microcredential in Promoting Active Learning Online
Institution	The Association of College and University Educators and the American Council on
monoution	Education – online course
California State University	TEACHING EXPERIENCE
Maritime Academy	
Fall 2023	Instructor, Chemical Oceanography Lecture
	1 class, 1 semester
Fall 2023	Instructor, Historical Geology Lecture
	1 class, 1 semester
Fall 2023	Instructor, Chemistry Laboratory
	2 classes, 1 semester
Portland State University	
Spring 2023	Instructor, Historical Geology Lecture (online)
Spring 2022	1 class, 1 quarter
Spring 2022	Instructor, Historical Geology Lecture (hybrid) 1 class, 1 quarter
Worcester State University	
Spring 2020	Instructor, Oceanography Lecture
3	1 class, 1 semester
Spring 2020	Instructor, Physical Geology Lecture with Laboratory
	1 class, 1 semester
Spring 2020	Instructor, Physical Geology Lecture
	1 class, 1 semester
Fall 2019	Instructor, Physical Geology Lecture with Laboratory
Fall 2019	2 classes, 1 semester Instructor, Physical Geography Lecture
Faii 2019	1 class, 1 semester
Florida International University	
Spring 2014 – Spring 2018	Instructor, History of Life Laboratory
	18 classes, 12 semesters
Spring 2018	Instructor, Physical Geology / Introduction to Earth Sciences Laboratory
op	

Fall 2015 Fall 2013 & Summer 2014 Spring 2014	1 class, 1 semester Instructor, Physical Geology Laboratory 1 class, 1 semester Instructor, Introduction to Earth Sciences Laboratory 3 classes, 2 semesters Teaching Assistant, Earth Through Time Lecture 1 class, 1 semester
	APPOINTMENTS
2023, August – 2024, May 2023, March – June	California State University Maritime Academy Department of Sciences and Mathematics Vallejo, California Visiting Assistant Professor Portland State University Department of Geology Portland, Oregon Adjunct Instructor in Geology
2022, March – June	Portland State University Department of Geology Portland, Oregon Adjunct Instructor in Geology
2019, August – 2020, May	Worcester State University Department of Earth, Environment, and Physics Worcester, Massachusetts Visiting Assistant Professor
2019, June – 2023, August	Florida International University Department of Earth and Environment Miami, Florida Postdoctoral Associate CURRENT PROJECTS
2021, October – Present	Western Science Center (Hemet, California)
2021, November – Present	Broader Impacts Program Preparation of materials for an exhibit on my Ph.D. research. University of Texas at Austin (Austin, Texas) Department of Anthropology Analysis and interpretation of benthic foraminiferal assemblages of sediment cores from a Puerto Rican lagoon for a multiproxy, collaborative study. PROFESSIONAL ACTIVITIES
2020, January – December	Cushman Foundation for Foraminiferal Research
2020, October	Board member as early career director Geological Society of America Annual Meeting Oceans and Climates through Earth History: From Proxy Reconstructions to Model Assessments GSA Connects Online Session Co-chair
2019, November – 2020, May 2019, September	Department of Earth, Environment, and Physics, Worcester State University Marketing committee member Geological Society of America Annual Meeting Cushman Foundation Symposium: Addressing Coastal Concerns with Micropaleontological Applications to Environmental Proxies, Reconstructions, and Deep-Time Analogs Phoenix, Arizona Session Co-chair

	PROFESSIONAL EXPERIENCE
2017, July – 2018, May	Florida International University
	Department of Earth and Environment
	Miami, Florida
2012 February May	Supervisor and Trainer for Laboratory Assistants United States Geological Survey and National Park Service
2012, February – May	International Volunteers in Parks Program
	Everglades National Park, Daniel Beard Research Center
	Homestead, Florida
	Research Intern for Gordon Anderson (USGS)
2010, August	Ghent University
	Renard Centre of Marine Geology
	Ghent, Belgium
	Laboratory Assistant for Dr. David Van Rooij
	INVITED TALKS
2022, March	Portland State University
	Department of Geology, Seminar Series
	The Benthic Foraminiferal Record of Sea Level Driven Paleoenvironmental Change
	in Florida's Coastal Everglades
	PEER-REVIEWED PUBLICATIONS
2023	Verlaak, Z.R.F., and Collins, L.S., 2023. History of Paleoenvironmental Changes in
2020	the Southwestern Everglades using Foraminiferal Assemblages. 29 p. <i>"in progress,</i>
	to be submitted to Palaeogeography, Palaeoclimatology, Palaeoecology"
2021	Verlaak, Z.R.F., and Collins, L.S., 2021. Environmental Controls on the Distribution
	of Modern Benthic Foraminifera in the Florida Everglades for Their Use as
	Paleoenvironmental Indicators. Journal of Foraminiferal Research, Vol. 51, p. 182–
2040	209, doi: 10.2113/gsjfr.51.3.182
2019	Verlaak, Z.R.F., Collins, L.S., and Hayek, C.LA., 2019. Effects of Infaunal Foraminifera on Surface and Subsurface Assemblages in the Southwestern
	Everglades, USA: Baseline Study for Paleoenvironmental Analyses. SEPM Special
	<i>Publication</i> , no. 111, p. 3–14, doi: 10.2110/sepmsp.111.03
	DECENTATIONS
2021	PRESENTATIONS Verlaak, Z.R.F, and Collins, L.S., 2021. Use of Everglades Foraminifera as
2021	Paleoenvironmental Indicators of Salinity. Greater Everglades Ecosystem
	Restoration, Virtual Meeting, GEER 2021 Poster Directory, p. 3,
	https://conference.ifas.ufl.edu/geer/docs/2021/GEER-2021-Poster-Directory.pdf
2020	Verlaak, Z.R.F., and Collins, L.S., 2020. Environmental Controls on the Distribution
	of Modern Benthic Foraminifera in the Florida Everglades for Their Use as
	Paleoenvironmental Indicators. Geological Society of America Annual Meeting,
	Connects Online, <i>Geological Society of America Abstracts with Programs</i> , Vol 52, No. 6, doi: 10.1130/abs/2020AM-355074,
	https://gsa.confex.com/gsa/2020AM/meetingapp.cgi/Paper/355074
2019	Verlaak, Z.R.F., and Collins, L.S., 2019. The History and Prospects of Habitat
	Change Due To Sea Level Rise for Florida's Coastal Everglades Using Benthic
	Foraminiferal Assemblages. Geological Society of America Annual Meeting, Phoenix,
	Arizona, Geological Society of America Abstracts with Programs, vol. 51, no. 5, doi:
	10.1130/abs/2019AM-335746, https://apa.confey.com/apa/2010AM/mostingann.cgi/Dapar/225746
2019	https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/335746 Verlaak, Z.R.F., and Collins, L.S., 2019. History of Habitat Change due to Sea
2013	Level Rise using Benthic Foraminiferal Assemblages, and its prospects for the
	Marsh- and Mangrove-fringed Coastline of the Everglades (South Florida, USA).
	International Association of Sedimentologists Annual Meeting, Rome, Italy.
2018	Verlaak, Z.R.F., and Collins, L.S., 2018. History of Paleoenvironmental Changes in
	the Southwestern Everglades (Florida, USA) Using Foraminiferal Assemblages.
	Geological Society of America Annual Meeting, Indianapolis, Indiana, <i>Geological Society of America Abstracts with Programs</i> , vol. 50, no. 6, doi:

2017 2017	 10.1130/abs/2018AM-324197, https://gsa.confex.com/gsa/2018AM/meetingapp.cgi/Paper/324197 Verlaak, Z.R.F., and Collins, L.S., 2017. Spatial Distribution of Modern Foraminiferal Assemblages in the Southwestern Everglades, Florida, USA. Geological Society of America Annual Meeting, Seattle, Washington, <i>Geological Society of America Abstracts with Programs</i>, vol. 49, no. 6, doi: 10.1130/abs/2017AM-307395, https://gsa.confex.com/gsa/2017AM/meetingapp.cgi/Paper/307395. Verlaak, Z.R.F, and Collins, L.S., 2017. Influence of the Benthic Foraminiferal Biocoenosis on Fossil Assemblages in the Southwestern Everglades. Greater Everglades Ecosystem Restoration, Coral Springs, Florida, <i>Greater Everglades Ecosystem Restoration: Program and Abstract Book</i>, p. 369,
2017	http://conference.ifas.ufl.edu/GEER2017/documents/GEER_2017_Abstract_Book_on line.pdf Verlaak, Z.R.F, and Collins, L.S., Influence of the Benthic Foraminiferal Biocoenosis
0040	on Fossil Assemblages in the Southwestern Everglades. Geologic Problem Solving with Microfossils IV, North American Micropaleontology Section, Houston, Texas
2016	Verlaak, Z.R.F, and Collins, L.S. , Influence of the Benthic Foraminiferal Biocoenosis on Fossil Assemblages in the Southwestern Everglades. Florida Coastal Everglades Long Term Ecological Research All Scientists Meeting, Miami, Florida
2015	Verlaak, Z.R.F., Collins, L.S., and Allen, J. , 2015. Vertical Distribution of Living (Stained) Benthic Foraminifera in the Everglades, South Florida, USA. Geological Society of America Annual Meeting, Baltimore, Maryland, <i>Geological Society of America Abstracts with Programs</i> , vol. 47, no. 7, p.132,
	https://gsa.confex.com/gsa/2015AM/webprogram/Paper265926.html FELLOWSHIPS, AWARDS, AND GRANTS
2019, September	Joseph A. Cushman Award for Student Travel, GSA Annual Meeting Cushman Foundation for Foraminiferal Research, \$891
2019, June	Student Participation Grant, IAS Annual Meeting SEPM Society for Sedimentary Geology, \$500
2018, May – 2018, December	Dissertation Year Fellowship Florida International University, University Graduate School, \$16,600
2017, April and October	Joseph A. Cushman Award for Student Travel, GSA Annual Meeting Cushman Foundation for Foraminiferal Research, \$1,714
2017, August	Student Participation Grant, Geologic Problem Solving with Microfossils IV SEPM Society for Sedimentary Geology, \$300
2015, November	Joseph A. Cushman Award for Student Travel, GSA Annual Meeting Cushman Foundation for Foraminiferal Research, \$810
2015, November	Travel Grant, GSA Annual Meeting Geological Society of America, Southeastern Section, \$60
0004	PUBLIC OUTREACH
2024 (Forthcoming) 2018	 Broader Impacts (Hemet, California) A 12-week exhibit on my Ph.D. research. Western Science Center Earth Day (Miami, Florida) Introduction to foraminifera and their use in my research with Q&A regarding climate change in South Florida
	Hosted by David Brown (Sustain-A-Village) PROFESSIONAL AFFILIATIONS
	Cushman Foundation for Foraminiferal Research, member Geological Society of America (GSA), member
P	
English Dutch	near native / fluent native speaker
Italian	reading and listening: near native / fluent
French	writing and speaking: good command / good working knowledge basic communication skills / working knowledge