SCHUYLER G. VAN MONTFRANS

Hopkins Lab – Latham Hall, Virginia Tech | Blacksburg, VA
svanmontfrans@vt.edu

Education

2014 **M.S. Candidate** – Biology (Marine Ecology focus). University of Florida.
Thesis: Multiple stressor hotspots reduce salt marsh resilience to drought.

2014 **Florida Professional Teaching Certification**. Florida Gateway College.
Educator Preparation Institute. 60 Hours ESOL (Cross-Cultural Communication), 60 Hours Reading Endorsement (completed June 2014).

2005 **B.A. in Biology. Minor: Environmental Sciences**. University of Virginia.

Teaching Experience

Decatur High School – Decatur, GA **August 2018 – June 2019**

- Courses taught: Mid-Year Program IB Physics, Mid-Year Program IB Chemistry

William Fleming High School – Roanoke, Virginia **August 2014 – May 2018**

- Courses taught: Biology (74% pass rate, Biology SOL), AP Biology (2017-2018) Ecology

Columbia High School – Lake City, Florida **August 2012 – May 2014**

- Courses taught: Marine Science, Marine Science Honors, Biology Honors (85% pass rate, state End-of-Course exam)
- University of Florida Seahorse Key Marine Laboratory marine sciences field trip (3 years)
- Guana-Tolomato-Matanzas National Estuarine Research Reserve field research (shoreline erosion, organism collection, and data analysis)
- Amelia River Cruise field trip (organism collection and identification)

University of Florida – Gainesville, Florida **August 2007 – May 2012**

- Course taught (co-instructor): Tropical Marine Ecology (field course in San Salvador, Bahamas)
- Courses taught (teaching assistant): Integrative Principles of Biology Lab, General Ecology Lab

University of Virginia – Charlottesville, Virginia **July 2005 – May 2007**

- Course taught (co-instructor): Tropical Marine Biology (field course in San Salvador, Bahamas)
- Course taught (teaching assistant): Invertebrate Zoology and Invertebrate Zoology lab

Bermuda Institute of Ocean Sciences – Ferry Reach, Bermuda **January 2006 – September 2007**

Duke University Beaufort-to-Bermuda Program
Course taught (teaching assistant): Marine Ecology

University of Southampton Study Abroad (Bermuda)
Course taught (instructor): Tropical Marine Ecology

Publications

Hope, S.F., Kennamer, R.A., **van Montfrans, S.G.**, & Hopkins, W.A. (2019) Incubation temperature and social context affect the nest exodus of precocial ducklings. *Behavioral Ecology*, *30*(2), 518-527. doi: 10.1093/beheco/ary192

Angelini, C., **van Montfrans, S.G.**, Hensel, M.J.S., He, Q., Silliman, B.R. (2018) The importance of an underestimated grazer under climate change: how crab density, consumer competition, and physical stress affect salt marsh resilience. *Oecologia*, *187*(1), 205-217. doi: 10.1007/s00442-018-4112-8

Vance, M., Pegues, V., **van Montfrans, S.**, Leng, W., & Marr, L. (2017) Aerosol emissions from fuse-deposition modeling 3D printers in a chamber and in real indoor environments. *Environmental Science and Technology*, *51*(17), 9516-9523. doi: 10.1021/acs.est.7b01546

Presentations

NSF RET Summer Research Symposium	July 2015, 2016, 2017, and 2018
Annual University of Florida Marine Biology Symposium	January 2009, 2010, and 2011
Annual Georgia Coastal Ecosystems Long-Term Ecological Research (LTER) Meeting, Athens, GA	January 2010
Evening Programs Nature Camp, Vesuvius, VA (2 presentations)	July 2006

Professional Development

Georgia Intern Fellowship for Teachers (GIFT) Fellow	June – July 2019
NSF RET (Virginia Tech) Water eCube G	June – August 2018
NSF RET (Virginia Tech): Biomechanics	June – August 2017
Supervised Student-Teacher from Hollins University	Spring 2017
Cross-Curricular Lesson Planning with Dr. Jake Socha (Virginia Tech) "Evolution and Flying Snakes"	October 2016
NSF RET (Virginia Tech): Biomechanics	June – August 2016
National Science Teachers Association National Conference (Nashville, TN)	March 2016
NSF RET (Virginia Tech): Innovation-Based Manufacturing	June – August 2015
Science Math Master Biology, University of Tampa, FL 4-day workshop	June 2014
Science Math Master Biology, University of Tampa, FL Half-day workshop	March 2013/2014
Common Core Training	August 2012

Awards and Acknowledgements

Grant Award: STEM Teacher Recruitment and Retention Incentive Program	2016
University of Florida Graduate Teaching Award	2011
Garden Clubs of America Coastal Wetlands Scholarship ($5,000)	2010
NOAA National Estuarine Research Reserve Graduate Research Fellowship ($60,000)	2009

Competencies and Skills

Proficient in Windows and OSX operating systems, Microsoft Office Suite (including statistical analyses in MS Excel)

Proficient in online teaching resources (Infinite Campus, Blackboard, TaskStream, Edmodo, Moodle, Office 365)

Interactive classroom technology (ActivBoard, Sharp AQUOS BOARD)