Curriculum Vitae

Abigail C Belvin
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Education

- Virginia Polytechnic Institute and State University - Blacksburg, VA
  - Anticipated graduation May 2024
  - Department of Entomology
- College of William & Mary - Williamsburg, VA
  - August 2017- May 2020
  - B.S. in Biology, minor in Environmental Science and Policy
  - GPA: 3.61
- Chesapeake Bay Governor's School - Gloucester, VA
  - September 2015 - June 2017
  - The Chesapeake Bay Governor's School for Marine Environmental Science is a regional magnet high school where college-level environmentally-based STEM courses are taught.
  - GPA: 3.8

Research Experience

- Fall 2019: A study of native and invasive plant species in mitigation ponds
  - Performed upkeep of native and invasive marsh plant seedlings before their planting in experimental mitigation ponds in James City County, VA.
- Summer 2019: Population study of diamondback terrapins, Gloucester, VA
  - Conducted fieldwork in ecological survey on the diamondback terrapins of the Catlett Islands in Gloucester, VA. Work included capture, mark, and release of the terrapins as well as analyzing population data including carapace width length and depth, sex and age of captured terrapins.
- Fall 2018/Spring 2019: Invertebrate diversity study in salt marsh soils
  - Aided in dissertation research on marine invertebrate community in the York River, community richness comparisons from natural marsh and living shoreline research marshes.
- Summer 2018: greenhouse gas study in stormwater ponds, Williamsburg, VA
  - Performed field and lab work for a study on greenhouse gas flux from stormwater ponds across James City County, VA. Work included taking samples from static greenhouse gas chambers to evaluate diffuse greenhouse gas flux from retention ponds, as well as analysis and recording of data from greenhouse gas analyzer.
- Spring 2018: Tree ring analysis to detect climate change, ecological study of William and Mary campus woods, Williamsburg, VA
  - Took tree cores and analyzed dendrochronological data from William & Mary campus woods data to evaluate the amount of carbon being sequestered in an area that was being considered for construction.

Peer-Reviewed Papers

Gorsky, A. L., Racanelli, G. A., Belvin, A. C., & Chambers, R. M. (2019). Greenhouse gas flux

from stormwater ponds in southeastern Virginia (USA). *Anthropocene*, *28*, 100218. https://doi.org/10.1016/j.ancene.2019.100218

Presentations

- Fall 2019: Poster presentation, 8th National Symposium on the Ecology, Conservation and Status of the Diamondback Terrapin. 11-13 Oct, Wilmington, NC.
- Fall 2019: College of William & Mary undergraduate research symposium. May 2019, Williamsburg, VA.
- Spring 2017: CBGS Research Symposium & Virginia Junior Academy Science, Zooplankton Population Dynamics and Inorganic Carbon Flux in a York River Tributary. May 2017, Richmond, VA.

Relevant Coursework

- College of William & Mary
    - Intro. GIS; Intro. to Biostatistics; Insects & Conservation; Integrative Biology: Animals; Environmental Sociology; Climate Change and Migration; Ecology; Evolution of Organisms
- Chesapeake Bay Governor's School
    - General Oceanography I & II; Physics for Life Sciences I & II; Elementary Probability & Statistics

Awards/Honors

- Summer 2019: College of William Mary Charles Center undergraduate research grant, *Population status and nesting ecology of diamondback terrapins on the Catlett Islands*
- Summer 2018: Virginia Environmental Endowment research grant. *Greenhouse gas flux from stormwater ponds in southeastern Virginia*
- Spring 2018: Howard Hughes Medical Institute Freshman Research Program
- May 2017: Virginia Environmental Endowment, Judge Henry Mackenzie Scholarship. *Zooplankton Population Dynamics and Inorganic Carbon Flux in a York River Tributary*
- May 2017: Chesapeake Bay Governor's School for Environmental Science REsearch Symposium, ribbon of excellence *Zooplankton Population Dynamics and Inorganic Carbon Flux in a York River Tributary*

Skills

Proficiency in:

- R Software (RStudio, RMarkdown, R)
- ArcGIS Software (ArcMap)
- JMP Software
- Microsoft Office Software (Word, Excel, PowerPoint, OneNote)

Field Experience:

- Identification/Sample sorting of saline benthic Macro-invertebrates
- Identification of Zooplankton & Phytoplankton
- Construction of greenhouse gas collection chambers for retention ponds
- Construction of Terrapin safe capture pots
- Experience identifying, sexing, and calculating age of diamondback terrapins

GRE Scores

- Nov 8, 2019
  - 161 Verbal Reasoning
  - 154 Quantitative Reasoning
  - 5.5 Analytical Writing
- Oct 5, 2019
  - 161 Verbal Reasoning
  - 152 Quantitative Reasoning
  - 6.0 Analytical Writing

References

Dr. Sally Entrekin

- Institution: Virginia Polytechnic institute and State University, Entomology Department
- Email: sallye@vt.edu
- Phone: 540-213-5978

Dr. Randolph Chambers

- Institution: The College of William & Mary, Biology Department/Environmental Science and Policy
- Email: rmcham@wm.edu
- Phone: 757-221-2331