Lily Wittle

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Work Experience

- Software Development Intern at Reinventing Geospatial, Inc. (RGi) (Winter 2016-2017)
  - Research and development in prediction and optimization techniques
- Software Development Intern at RGi (Summer 2016)
  - Development and integration of software products to help facilitate geospatial dissemination and analysis for the U.S. Army
- Game Master at Escape Artist DC (2015)
  - Helped customers before and during the escape, housekeeping

Research Experience

- Undergraduate Researcher at NSF Fresno State Mathematics REU (2017)
  - Research in Fourier analysis, focused on modifications to the Gerchberg-Saxton phase recovery algorithm
- Independent Student Researcher at University of Miami (2016-present)
  - Investigating air-sea interaction in high winds and fluid flows, under Dr. William Drennan

Education

- University of Miami, Coral Gables, Florida (2015-present)
  - Triple-majoring in marine science, mathematics (applied analysis), and computer science at Rosenstiel School of Marine & Atmospheric Science
  - GPA: 4.0
  - Mathematics courses: Introduction to Ordinary Differential Equations, Introduction to Linear Algebra (honors), Introduction to Abstract Mathematics, Calculus III
  - Computer science courses: Computer Organization and Architecture, Scientific Programming in Marine and Atmospheric Sciences, Computer Programming II
  - Marine science/physics courses: Fluid Mechanics (engineering course), Introduction to Physical Oceanography (honors), Living Resources in the Ocean, Marine Biology, University Physics II
  - Taking fall 2017: Introduction to Real Analysis I (graduate), Abstract Algebra I (graduate), System Programming, Data Structures and Algorithm Analysis, Introduction to Probability and Statistics

- Thomas Jefferson High School for Science and Technology, Alexandria, Virginia (2011-2015)
    - GPA: 4.392 (weighted)/3.928 (unweighted) on 4.0 scale
    - AP and Post-AP courses including Multivariable Calculus, Computer Science, Physics C, Calculus BC

Academic Awards
- President's Honor Roll, Provost's Honor Roll & Dean's List (2015, 2016, 2017)
- CRCA National Scholar Athlete (2017)
- Arthur Ashe Jr. Sports Scholar (2017)
- Atlantic Coast Conference Academic Honor Roll (2016)
- National Merit Finalist (2014) and Scholarship (2015-present)

Activities and Honor Societies
- University of Miami Division I Women's Rowing Team (2015-present)
    - Captain (2016-present) and first varsity coxswain (2016)
- Rho Rho Rho, University of Miami's Honor Society for Marine and Atmospheric Sciences (2016-present)
- University of Miami Scuba Club (2015-present)
- Thomas Jefferson High School Crew Team (2011-2015)
    - Captain (2014-2015) and first varsity coxswain (2013-2015)

Volunteer Experience
- Loaves & Fishes soup kitchen, Washington, DC (2009-2016)
    - Serving lunch to 160+ diners (monthly)
    - Planning, preparing, transporting, and serving homemade dessert/fresh fruit to 160+ diners at Loaves & Fishes (~biannually)
- Annandale Pyramid Back-to-School Resource Fair (2014)

Skills
- Experienced in Python, Java, and MATLAB
- Proficient in JavaScript, SQL, HTML, CSS, and Fortran
- Good with Windows and Macintosh operating systems
- Basic experience with Linux
- Basic knowledge of French and American Sign Language
- Organized, detail-oriented, and prone to create spreadsheets

References
- Dr. William Drennan, RSMAS (wdrennan@rsmas.miami.edu)
- Ellins Thomas, RGi (ellins.thomas@rgi-corp.com)
- Milind Raj, Escape Artist DC (info@escapeartistdc.com)