

# Marcus William Fedarko

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<b>Education</b>	PH.D. STUDENT, Computer Science <b>University of California, San Diego</b>	Starting 9/2018 San Diego, CA
	B.S. WITH HIGH HONORS, Computer Science <b>University of Maryland</b> GPA: 3.81/4.0	9/2014–5/2018 College Park, MD
<b>Conference Presentations</b>	1. <b>M. Fedarko</b> , J. Ghurye, T. Treangen, and M. Pop. “MetagenomeScope: Web-Based Hierarchical Visualization of Metagenome Assembly Graphs.” Poster presented at the <i>25th International Symposium on Graph Drawing and Network Visualization</i> , Boston, MA, USA, 2018.	
<b>Research Experience</b>	RESEARCH INTERN <b>University of Maryland</b> <ul style="list-style-type: none"><li>• <b>Advisors:</b> Mihai Pop, Todd Treangen</li><li>• Designed MetagenomeScope, an interactive visualization tool for metagenome assembly graphs.</li><li>• MetagenomeScope’s project page is available online at <a href="https://marbl.github.io/MetagenomeScope/">https://marbl.github.io/MetagenomeScope/</a>.</li></ul>	6/2016–Present College Park, MD
<b>Teaching Experience</b>	COURSE ASSISTANT <b>Marine Biological Laboratory</b> <ul style="list-style-type: none"><li>• <b>Courses:</b> Workshop on Molecular Evolution (MOLE); Strategies and Techniques for Analyzing Microbial Population Structures (STAMPS)</li><li>• Assisted with basic logistics for both courses.</li><li>• Helped students during some of the “laboratory” sections of the STAMPS course, including tutorials on Unix and Git.</li><li>• Prepared and gave a roughly hour-long presentation (including a tutorial) on MetagenomeScope during the STAMPS course as part of Todd Treangen’s session on “Graph-based variant detection and strain-level analyses.”</li></ul>	7/2018–8/2018 Woods Hole, MA
	UNDERGRADUATE TEACHING ASSISTANT <b>University of Maryland Dept. of Computer Science</b> <ul style="list-style-type: none"><li>• <b>Course:</b> CMSC 330 (“Organization of Programming Languages”)</li><li>• Assisted students with coursework (Ruby, OCaml, Prolog; grammars, regular languages, semantics, security) in office hours and on an online discussion board.</li><li>• Designed and graded quiz and exam questions.</li></ul>	8/2016–12/2016 College Park, MD
<b>Professional Experience</b>	STUDENT STAFF WRITER <b>University of Maryland Dept. of Computer Science</b> <ul style="list-style-type: none"><li>• Composed and edited some thirty articles published through the department’s website, annual magazine <i>shell</i>, and other media.</li><li>• Assisted with the logistics of various department outreach functions, including hosting the robotics team from a nearby elementary school for a day at the department.</li></ul>	1/2015–9/2017 College Park, MD

STUDENT INTERN

5/2013–8/2014

**Axiometric**

Columbia, MD

- Designed a user-friendly graphical interface in Java to an RF propagation model to assist clients in planning deployments of mesh networks of utility meters.
- Aided in the creation and maintenance of other utility meter deployment management software.

INTERN SOFTWARE ENGINEER

7/2012–8/2012

**Battlefield Telecommunications Systems**

Columbia, MD

- Designed a web interface using Python (Django), JavaScript, and HTML to monitor the connection strength of radio devices.
- Helped integrate this functionality into the company's existing network management user interface.

**Honors and  
Awards**

1. University of Maryland CMNS Dean's List Fall 2014–Spr. 2018
2. University of Maryland Honors College University Honors Citation 2017
3. Rita Colwell Travel Fellowship 2017
4. Travel Award, U. of Michigan "Explore Graduate Studies" Workshop 2017
5. John D. Gannon Endowed Scholarship 2017
6. Corporate Partners in Computing Scholarship 2016, 2017
7. Omicron Delta Kappa National Leadership Honor Society 2016
8. Northrop Grumman Scholarship for Employees' Children 2014
9. University of Maryland Dean's Scholarship 2014