

Marcus William Fedarko

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Education	PH.D. STUDENT, Computer Science University of California, San Diego	Starting 9/2018 San Diego, CA
	B.S. WITH HIGH HONORS, Computer Science University of Maryland GPA: 3.81/4.0	9/2014–5/2018 College Park, MD
Conference Presentations	1. M. Fedarko , 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.	
Research Experience	RESEARCH INTERN University of Maryland <ul style="list-style-type: none">• Advisors: Mihai Pop, Todd Treangen• Designing MetagenomeScope, an interactive visualization tool for metagenome assembly graphs.• MetagenomeScope’s project page is available online at https://marbl.github.io/MetagenomeScope/.	6/2016–Present College Park, MD
Teaching Experience	COURSE ASSISTANT Marine Biological Laboratory <ul style="list-style-type: none">• Courses: Workshop on Molecular Evolution (MOLE); Strategies and Techniques for Analyzing Microbial Population Structures (STAMPS)• Assisted with basic logistics for both courses.• Assisted students during some of the “laboratory” sections of the STAMPS course, including tutorials on Unix and Git.• 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.”	7/2018–8/2018 Woods Hole, MA
	UNDERGRADUATE TEACHING ASSISTANT University of Maryland Dept. of Computer Science <ul style="list-style-type: none">• Course: CMSC 330 (“Organization of Programming Languages”)• Assisted students with coursework (Ruby, OCaml, Prolog; grammars, regular languages, semantics, security) in office hours and on an online discussion board.• Designed and graded quiz and exam questions.	8/2016–12/2016 College Park, MD
Professional Experience	STUDENT STAFF WRITER University of Maryland Dept. of Computer Science <ul style="list-style-type: none">• Composed and edited some thirty articles published through the department’s website, annual magazine <i>shell</i>, and other media.• 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.	1/2015–9/2017 College Park, MD

STUDENT INTERN

5/2013–8/2014

Axiometric

Columbia, MD

- Created and maintained utility meter deployment management software.
- Designed a user-friendly graphical interface in Java to an RF propagation model to assist clients in planning deployments of mesh networks.

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.
- Integrated radio signal testing into the company's existing network management user interface.

**Honors and
Awards**

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| 1. University of Maryland CMNS Dean's List | All Semesters |
| 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 |