Marcus William Fedarko

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Education

PH.D. STUDENT, Computer Science	Starting 9/2018
University of California, San Diego	San Diego, CA

B.S. WITH HIGH HONORS, Computer Science	9/2014–5/2018
University of Maryland	College Park, MD
GPA: 3.81/4.0	

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 *25th International Symposium on Graph Drawing and Network Visualization*, Boston, MA, USA, 2018.

Research Experience

RESEARCH INTERN	6/2016–Present
University of Maryland	College Park, MD

- **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/`.

Teaching Experience

UNDERGRADUATE TEACHING ASSISTANT	8/2016–12/2016
University of Maryland Dept. of Computer Science	College Park, MD

- **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.

Professional Experience

STUDENT STAFF WRITER	1/2015–9/2017
University of Maryland Dept. of Computer Science	College Park, MD

- Composed and edited some thirty articles published through the department's website, annual magazine `shell`, 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.

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

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