MICHAEL S. SAUGSTAD

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EDUCATION

University of Maryland, College Park, College Park, MD
M.S. in Computer Science   May 2018
GPA: 4.0

Vassar College, Poughkeepsie, NY
B.A. in Mathematics and Statistics, Computer Science   May 2016
GPA Overall: 3.79 Majors: 3.86

RELEVANT EXPERIENCE

Research Assistant   June 2017 - Present
University of Maryland Computer Science Department, College Park, MD
- Leading software development on Project Sidewalk, an online tool for large-scale virtual auditing of urban accessibility; working with Prof Jon Froehlich.
- Leading data analysis for the project; includes writing algorithms to take $> 100,000$ labels (with lat-lng) placed by hundreds of users, remove duplicates using hierarchical clustering, and visualize&compare performance across numerous factors using trellis plots, ANOVA, in R.
- Mentoring 3 undergraduate and highschool students on the team.

Teaching Assistant   Aug 2016 - May 2017
University of Maryland Computer Science Department, College Park, MD
- Mentored and assisted 75 students with Java and OOP concepts.

Research Assistant   Jan 2015 - May 2016
Vassar College Computer Science Department, Poughkeepsie, NY
- Implemented reactive indoor navigation using dynamical systems.
- Integrated existing Python code base into the ROS ecosystem.
- Redesigned robot's vision to utilize Kinect depth sensor.

Research Intern - Quality of Life Technology NSF REU   May 2015 - Aug 2015
Carnegie Mellon University Robotics Institute, Pittsburgh, PA
- Developed C++ software for socially acceptable autonomous robot navigation.

Programming Instructor   June 2014 - Aug 2014
iD Tech Camps at MIT, Boston, MA
- Taught courses in game design and Java to 6-13 year olds.

COMPUTER SKILLS

Proficient: R, Python, Scala, Java, C++, Javascript, Postgres, SQL, LaTeX, ROS, Linux
Familiar: Haskell, OpenMP, MPI, Play, C/UPC, Scheme, Assembly, Occam-Pi, Prolog

AWARDS AND LEADERSHIP

Recipient, Dean's Fellowship, Dept of Computer Science, UMD   Aug 2016
Recipient, Janet Holdeen-Adams Prize, Dept of Computer Science, Vassar   May 2016
Co-chair, Computer Science Majors Committee, Vassar   Sept 2014 - May 2015
Captain and Treasurer, Quidditch Team, Vassar   Sept 2013 - May 2014
Co-founder, Quidditch Program – Parks & Recreation Dept, Waukesha, WI   June 2013 - Aug 2013