

Megan H. Varnum

Smith College 1 Chapin Way, Unit 8442, Northampton, MA, 01063 | mvarnum@smith.edu | (509)-330-6067 | meganvarnum.com

EDUCATION

Smith College, Northampton, MA

Computer Science & Mathematical Statistics Double Major *Expected May 2024*

Relevant Coursework: Computer Networks, Microprocessors & Assembly Language, Multiple Regression (R), Data Structures (Java), Theory of Computation, Intro Data Science (R)

Washington State University, High School Dual Enrollment *2017 - 2019*

Relevant Coursework: Data Structures (C++), C Programming, Differential Equations, Linear Algebra

Pullman High School, Pullman, WA *2015 - 2019*

AWARDS

STRIDE Research Scholarship, \$95,540 Smith College

Valedictorian, National AP Scholar, National Chemistry Olympiad Semifinalist Pullman High School

TECHNICAL SKILLS

C++, PHP, Java, R, SQL, C, Javascript, HTML/CSS, Rappid, Node, Backbone, Sass

TECHNICAL EXPERIENCE

Drivers Ed Solutions, Eau Claire, WI

Software Developer Intern *March 2022 - Aug 2022*

- Improved a database-driven web application handling ~40,000 students per year across ~200 driving schools using SQL, PHP, and front-end web languages and frameworks (e.g. HTML/CSS, AJAX, Sass, chart.js)
- Implemented a software feature enabling students to upload paperwork files to satisfy course completion
- Supported and troubleshooted client and customer issues and software requests

Grubb Computer Science Lab, Smith College, MA

Research Assistant *Sept 2019 – Present*

- Investigated methods of visualizing trends in path-based simulation results over time
- Developed visual overlay to aid user understanding on top of Javascript libraries, namely joint.js
- Learned about web development and requirements engineering
- Effectively worked as part of a team both virtually & in-person, and demonstrated excellent communication through published articles and conference presentations (see below)

ADDITIONAL EXPERIENCE

Webmaster & Retail Sales Associate, The Baker's Pin, Northampton, MA *Aug 2021 - Feb 2022*

Lifeguard and Swim Instructor, Aquatic Center & Reaney Park Pool, Pullman, WA *Jan 2017 - Aug 2019*

Materials Engineering Intern, Wolcott Lab, Washington State University *June 2017 - Aug 2017*

PUBLICATIONS

M.H. Varnum, K.M.B. Spencer, A.M. Grubb: Towards an Evaluation Visualization with Color. In Proceedings of the 13th International i* Workshop: 79-84 (2020) ([link](#))

M. Dhaouadi, K.M.B. Spencer, **M.H. Varnum**, A.M. Grubb, M Famelis: Towards a Generic Method for Articulating Design-time Uncertainty. Journal of Object Technology. 20(3): 3:1-14 (2021) ([link](#))

EXTRACURRICULARS

NCAA Track & Field and Cross Country at Smith College *Aug 2019 - Present*