

ALIREZA MOGHADDASI

A. James Clark School of Engineering, University of Maryland
+1 (540)922-3973 ◊ alirezam@umd.edu

EDUCATION

- University of Maryland, College Park, MD** *Aug 2020 - Present*
Department of Civil and Environmental Engineering
Doctor of Philosophy (Ph.D. Student)
Advisor: Dr. Barton Forman
- Virginia Tech, Blacksburg, VA** *Sep 2018 - May 2020*
Department of Biological Systems Engineering
Master of Engineering
Project: Hydrological Streamflow Modeling of Appomattox Watershed, VA
- Iran University of Science and Technology (IUST), Tehran, Iran** *Sep 2015 - May 2018*
Department of Civil Engineering
Master of Science
Thesis: Reliability-based Multi-objective Optimization of Sewer Networks
- Iran University of Science and Technology (IUST), Tehran, Iran** *Sep 2011 - Sep 2015*
Department of Civil Engineering
Bachelor of Science

RESEARCH INTERESTS

Areas	Satellite Hydrology, Snow Remote Sensing, Land Surface Modeling,
Methods and Tools	Data Assimilation, Statistical Data Analysis, Machine Learning, High Performance Computing, Optimization

TECHNICAL STRENGTHS

Computer Languages:

- **R (advanced)**
- **MATLAB (advanced)**
- **Linux/Bash (intermediate):** Interacting with supercomputers, installing software/open source packages, manipulating files and directories

Software:

- ArcGIS, HEC-RAS, SWAT, SWAT-CUP, WEAP, ENVI

TEACHING EXPERIENCE

- Teaching Assistant - BSE 4126 Comprehensive Design Project** *Fall 2019, Spring 2020*
Virginia Tech, Helped with grading, setting up course lectures, and helping students with design projects (50 people).
- Teaching Assistant - Numerical Methods in Water Engineering** *Spring 2017*
Iran University of Science and Technology, Set up office hours to support students with their assignments, projects, and answer their course related questions (10 people).

Teaching Assistant - Finite Element Methods

Fall 2016

Iran University of Science and Technology, Set up office hours to support students with their assignments, projects, and answer their course-related questions (10 people).

AWARDS

Recipient of the Pratt Graduate Fellowship (\$2000), Virginia Tech, 2018.

SERVICES

Administrative Manager and Organizer, Iranian Society at Virginia Tech	<i>Aug 2019 - Aug 2020</i>
Vice President of Land and Water - BSE Graduate Student Organization	<i>Aug 2019 - May 2020</i>
Member of Biological Systems Engineering Social Committee	<i>Aug 2019 - May 2020</i>