

MIGUEL M. MORAVEC

www.miguelmoravec.com

Education

VANDERBILT UNIVERSITY

- PhD Student *Civil & Environmental Engineering* Nashville, TN
July 2020 – Present
 - o GPA: 3.7/4
- B.A. in *Earth Science (Honors) & Communication of Science* with *Physics* Minor May 2018
 - o GPA: 3.7/4

UNITED STATES NAVAL ACADEMY

- (*Inabsolutus*) GPA: 3.7/4, Honorable Service, Secret Clearance Annapolis, MD
2013-2015

Research Experience

VANDERBILT UNIVERSITY

- Russel G. Hamilton Research Fellow* July 2020 – Present
 - Investigated impacts of disruptions to regional energy resilience & freight flows with novel analysis of federal & crowd data. DHS funded. Featured in industry publications. *R, ArcGIS*

COLUMBIA UNIVERSITY

- STEMSEAS Research Program Mentor* Aug. 2016 & Nov. 2021
 - Mentored student teams during 1,000 nm transits of Pacific Ocean aboard NSF vessels.
 - Assisted in research curriculum development and generated outreach materials. *Adobe*

METRO GOVT OF NASHVILLE

- Data Science for Social Good Fellow* Jun. 2021 – Aug. 2021
 - Forecasted 5 years of construction debris generation under various waste management policies to inform pathways to city sustainability goals. Created data dashboard. *R, Python*

PRINCETON UNIVERSITY / NOAA

- Geophysical Fluid Dynamics Lab Intern* Jun. 2016 – Aug. 2016
 - Reduced processing time by 98% for North American Multi-Model Ensemble data tasks by developing scripts to automatically generate analysis & data visualizations. *Python, Linux*

Professional Experience

U.S. ENVIRONMENTAL PROTECTION AGENCY via ORAU

- Science Communication Associate* Jun. 2019 – Jul. 2020
 - Devised and enacted digital outreach strategy for Nat'l Chemical Research Program. *Adobe*
 - Automated appropriations reporting process for cross-matrix research & policy team. *R*

NISSAN NORTH AMERICA via Kelly Services

- Regional Consumer Affairs Specialist* Aug. 2018 – Apr. 2019
 - Collaborated with dealership and regional personnel to develop and communicate technical solutions to automotive clients. *Salesforce, Tableau*

VANDERBILT LIFEFLIGHT

- Marketing and Outreach Assistant* Sept. 2015 – May 2018
 - Directed and edited 5 film projects, collaborating with EMS flight crews. *Adobe Premiere*
 - Contributed 2700 records and evaluation summaries to outreach database. *Redcap*

Leadership & Honors

- PRESIDENT:** Graduate Student Council, Vanderbilt University 2022
- FOUNDER:** V.U. Fossil Fuel Divestment Campaign, featured in CNN, WaPo 2020 - 2022
- CO-AUTHOR:** Utilizing Agent-Based Modeling to Evaluate Operational Impacts of an Incident and Possible Alternatives on U.S. Waterways, Transportation Review Board 2020
- INDUCTEE:** Physics Honor Society, Sigma Pi Sigma, Vanderbilt University 2018
- MEDALIST:** Houston Public Speaking Competition, Vanderbilt University 2016