

Miguel Marco Moravec

Science, Service, and the Pursuit of Happiness

Education



Vanderbilt University, Nashville TN

- PhD Student *Civil and Environmental Engineering* *July 2020 – Present*
 - o GPA: 3.5/4
- B.A. in *Earth and Environmental Science (Honors)* and *Communication of Science and Technology with Physics Minor* *May 2018*
 - o GPA: 3.7/4



United States Naval Academy, Annapolis MD

June 2013 – July 2015

- (*Inabsolutus*) GPA: 3.7/4

Work Experience

Science Communication Associate, **U.S. EPA** – Oak Ridge Assoc. Univ. *Jun. 2019 – Jul. 2020*

- Developed R scripts to automate product reporting for cross-matrix research & policy team.
- Devised and enacted digital outreach strategy for Nat'l Chemical Research Program. *Adobe*

Regional Consumer Affairs Specialist, **Nissan North America** – Kelly Serv. *Aug. 2018 – Apr. 2019*

- Collaborated with dealership and regional personnel to develop and communicate technical solutions to clients requesting automotive assistance. *Salesforce, Tableau*

Marketing and Outreach Assistant, **Vanderbilt LifeFlight** *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*

Lab Intern, **Princeton Univ. NOAA** Geophysical Fluid Dynamics Lab *Jun. 2016 – Aug. 2016*

- Programmed scripts to automatically generate analysis figures for the North-American Multi-Model Ensemble data. Reduced task processing time by 98%. *Python, Linux*

Midshipman, **U.S. Navy** *Jun. 2013 – July 2015*

- Trained to serve as officer aboard USS Jason Dunham, USS Rhode Island, and USS Anzio while completing coursework in naval science and military leadership at US Naval Academy

Research Experience

Russel G Hamilton Research Fellow, **Vanderbilt University** *July 2020 – Present*

- Analyzed impacts of natural hazards and climate change on multimodal freight flows using AIS and USACE data as part of DHS funded Port Resilience project. *R, Python*

Honor's Thesis, **Vanderbilt** Initiative for Smart City Oper. Research *Sept. 2017 – May 2018*

- Investigated gentrification patterns in Nashville by performing regression analysis on demographic and real estate big data. Created interactive website. *R, Python, HTML, CSS*

STEMSEAS Program, **Columbia University** *August 2016*

- Exposed to oceanographic research aboard R/V Sikuliaq during sonar survey of Queen Charlotte Fault in Alaskan Gulf.

Awards

- Student Marshal and Dean's Advisory Council Appointee, College of A&S, Vanderbilt Univ.
- Student Innovation Awardee, Vanderbilt Institute for Digital Learning (\$250 prize)
- Houston Public Speaking Competition Medalist, Vanderbilt University (\$200 prize)
- Physics Honor Society, Sigma Pi Sigma, Member, Vanderbilt University

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