Miguel Marco Moravec

Education

Vanderbilt University, Nashville TN   *May 2018*
- B.A. in *Earth and Environmental Science (Honors)* and
  C*ommunication of Science and Technology* with *Physics* Minor
- GPA: 3.7/4

United States Naval Academy, Annapolis MD   *June 2013 – July 2015*
- (*Inabsolutus*) GPA: 3.7/4

Research Experience

Honor's Thesis, **Vanderbilt** Initiative for Smart City Oper. Research   *Sept. 2017 – May 2018*
- Investigated gentrification patterns in Nashville by performing linear regression analysis on demographic, real estate, and transportation data assimilated from government and private agencies. Created interactive website. *R Studio, Python, HTML, JavaScript*

Paleoclimate Directed Study, **Vanderbilt University**   *Sept. 2016 – May 2017*
- Prepared samples from TN cave system for isotopic analysis
- Deployed cave sensors and assisted in data retrieval

STEMSEAS Program, **Columbia University**   *August 2016*
- Exposed to oceanographic research aboard R/V Sikuliaq during sonar survey of Queen Elizabeth Fault in Alaskan Gulf**.**

Work Experience

Consultant, **Vanderbilt** Engin. Cent. for Transportation and Oper. Resiliency   *May 2018 –Present*
- Wrote scripts to process AIS ship location data for agent-based model of commercial tug boat traffic as part of US Coast Guard funded project. *R, Netlogo 3D*

Marketing and Outreach Assistant, **Vanderbilt LifeFlight**   *Sept. 2015 –Present*
- 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. Reduced 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 academic coursework at US Naval Academy

Awards

- Student Marshal, College of Arts & Science, Vanderbilt University
- 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
- Federal STEM Policy Program Participant, Vanderbilt Office of Federal Relations
- Top Navy Helmsmanship Awardee, Varsity Offshore Sailing Team, US Naval Academy

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Leadership

Vanderbilt University, Nashville, TN   *Sept. 2015 – May 2018*

Race Team Captain, Club Sailing
- Led program to first ever offshore competitions through training and outreach efforts, culminating in top placing finish against varsity programs in Larchmont, NY

Judicial Officer, Pi Kappa Alpha Fraternity
- Introduced, passed, and instated book stiped for non-funded ROTC students
- Introduced, passed, and instated incentive 'grass roots' accountability system

Communication's Chair, Warren College Council
- Designed, presented, and passed a 'Coat of Arms' and other graphics for dorm

Dean's Undergraduate Advisory Board Appointee, College of Arts and Science
- Selected by peers and faculty to provide input to Dean on improving A&S college

Varsity Offshore Sailing Team, United States Naval Academy, Annapolis, MD   *Jun. 2013 – July 2015*
- Offshore Supply Officer, *Tenacious* Navy 44
- Offshore Boat Command Skipper 'D' Qualification
- Colgate 26 Intercollegiate Racing Skipper

US Naval Sea Cadet Corps, Annapolis, MD   *Sept. 2010 – May 2013*

Leading Petty Officer, Annapolis Division
- Responsible for planning, executing weekend-long drill for 30 cadets, monthly

'Honor Cadet' Top Performer
- Amphibious Operations Training, Cleveland, OH
- Petty Officer Leadership Academy, New Orleans, LA

International Exchange Program, Karlskrona, Sweden
- Represented USNSCC to Swedish Military and Cadets at nation's largest naval base

Indian Creek Upper School   *Sept. 2009 – May 2013*

Class President, introduced, passed, and instated school-wide academic honor roll

Community Service

'Honor Salute Program, United States Naval Academy   *Jan 2015 – May 2015*
- Rendered final honors to veterans in hospice care, monthly

Mids for Kids, United States Naval Academy   *Jan 2015 – May 2015*
- In class tutor for elementary school students with English as second language, weekly

Midshipmen Action Group, United States Naval Academy   *Sept. 2013 – Jan 2014*
- Voluntary maintenance of parks, military memorials, and downtown Annapolis, monthly

Guatemala Mission Trip, Severn United Methodist Church   *June 2012*
- Translated for American Educators providing lesson plans to isolated village

Christian Assistance Program, Severn United Methodist Church   *May 2011 – Aug 2011*
- Assisted food pantry team to provide donated goods to families in need, weekly

Habitat for Humanity, Annapolis, MD   *June 2011*
- Volunteered for home construction effort for low income families on Clay St.

Skills

Programming – Python, R, HTML, and C# for Virtual Reality applications

Software – Adobe Creative Suite, Microsoft Office, Unity, Blender, GIMP, Redcap, Wordpress

Linguistics – Fluent in Spanish (Speaking, Reading, Writing)

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