Daniel J. Marchetto

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Google Scholar
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Behavioral and Data Scientist. My current project involves utilizing my skills to learn the experience and motivations of graduate students on the r/GradSchool subreddit forum. This project includes topic modeling, sentiment analysis, surveying, and interviews.

EDUCATION

Master of Science in Computational Science and Engineering, *Georgia Institute of Technology* — 2022
    Specialization: Computational Social Science

Master of Science in Statistics, *Georgia Institute of Technology* — 2021

Master of Public Policy, *Arizona State University* — 2018

Bachelor of Science in Psychology, *Carnegie Mellon University* — 2016

PUBLICATIONS

Topic Classifcation of Electric Vehicle Consumer Experience with Transformer-based Deep Learning, *Patterns 2021*
    Ha, S., **Marchetto, D.J.**, Dharur, S., Asensio, O.I.

Extracting User Behavior at Electric Vehicle Charging Stations with Transformer Deep Learning Models, *CARMA 2020*
    Marchetto, D.J., Ha, S., Dharur, S., Asensio, O.I.

RESEARCH EXPERIENCE

OECD Science & Technology Policy Hackathon — **May 2022 - June 2022**
- Analyzed green transition goals from 24 country S&T strategy documents utilizing a BERT-based classifier and topic model.
- Demonstrated that green transition goals present in strategies are not reflected in a country's S&T policy initiatives.

Graduate Research Assistant — **August 2018 — May 2021**
Dr. Julia Melkers — *Georgia Tech*
- Analyzed themes from phone interviews with CS graduate students to learn sources of self-efficacy.
- Designed the structure and elements of a large-scale MS CS student survey including developing a novel self-efficacy scale.
- Collected and analyzed literature relating to faculty career development and online education.

Dr. Omar Isaac Asensio — *Georgia Tech*
- Designed and implemented survey to crowd-source partial training labels for use in BERT and XLNET topic classification task.
- Extracted and analyzed consumer dissatisfaction from unstructured EV charge station reviews using fixed-effect models in R.
- Analyzed impact of HUD funding on household electricity consumption in Albany, GA with matching and panel models.

Smart Community Corps Fellow — **May 2019 — September 2019**
Institute for People and Technology — *Georgia Tech*
- Graduate Fellow in project to improve data connectivity and transparency in the City of Albany, GA.
- Consulted on design of SQL database for linkage of city records relating to economic development and utility consumption.
- Eased public access to city data by designing a geohub website using ESRI's web service.

Graduate Research Assistant — **January 2017 — July 2018**
Dr. Lily Hsueh — *Arizona State*
- Conducted literature search on firm-level carbon emission reduction and its relation to corporate self-governance.
- Collected firm-level emission data and Twitter data from S&P 500 corporations using Thomson Reuters and Python.
- Analyzed trends between Twitter postings and corporate emissions using classification and regression techniques in R.

Research Intern — **June 2017 — August 2017**
Republic Services — *Phoenix, AZ*
- Managed project to analyze sources of turnover in material recycling facilities.
- Conducted phone and on-site interviews with key stakeholders and presented results to members of upper management.

TEACHING EXPERIENCE

Co-Instructor — Research Design in Policy Science — Spring 2022
Graduate Teaching Assistant — Big Data and Public Policy — Spring 2020

SKILLS

Tools and Languages — R, Python, Julia, SQL, Git, LaTeX
Analytic Techniques — Regression, Classification, Clustering, Structural Equation Modeling, Multilevel Modeling, Experimental Design, Survey Design, Psychometrics, Text Analysis