Daniel J. Marchetto

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Google Scholar
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Behavioral and Data Scientist. My current research project involves analyzing the experiences 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	Information and Communications Policy	Fall 2022 — Fall 2023
	Engineering Ethics	Fall 2021
	Big Data and Public Policy	Spring 2020
	Economics and Public Policy	Fall 2017, Spring 2018

SKILLS

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