

Adam Rauh

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- Education** *University of Michigan* May 2018
B.S. in Data Science with Distinction and High Honors GPA: 3.8
- Employment** *Computational & Statistical Research Specialist* July 2018 - Present
MIT Political Methodology Lab, Cambridge, MA
- Analytics Intern* May 2017 - August 2017
Expeditors International, Romulus, MI
- Used machine learning and other statistical techniques to predict shipment performance and optimize various aspects of freight movement
 - Worked to determine important attributes and events in the process of moving freight to provide insights on efficiency and cost
 - Helped design the future analytics development environment for the company
 - Built and improved data reporting procedures
- Software Development Intern* May 2016 - May 2017
Information & Technology Services, University of Michigan, Ann Arbor, MI
- Used Python for back end web development
 - Worked with a variety of AWS services and use cases
 - Automated U-M cloud account creation & provisioning
 - Designed & implemented security & management guardrails for accounts
 - Utilized a variety of modules – primarily Boto and Selenium
- Papers & Posters**
- Poster: *Improving Computational Efficiency of Treatment and Control Match Generation in optmatch* accepted to *Society for Research on Educational Effectiveness* conference (Spring 2018)
 - Co-author on *Understanding Blight Ticket Compliance in Detroit*, accepted to the University of Chicago *Data Science for Social Good Conference* (2017)
 - Co-author on *Flint Water Crisis: Data-Driven Risk Assessment Via Residential Water Testing* accepted to the *Bloomberg Data For Good Exchange* (2016)
 - Honors Thesis: *Proposals for Generating and Utilizing Well Informed Initialization Values to Improve the Computational Efficiency of Optmatch*, Advisor: Ben Hansen
- Research & Past Projects**
- Developing algorithmic improvements and increasing computational efficiency of *optmatch*, an R package for creating optimal matches between treatment/control groups
 - Assisted with research related to geospatial and social media data with Professor Walter Mebane
 - Developed system for gathering and using geographic data about monuments, memorials, and other points of interest for graduate student research on cultural memory in Germany
 - Explored the impact of in-game events and strategies on physiological metrics with Catapult data in collegiate soccer
- Other Skills** *Programming Languages:* R, Python, C++
Other Technologies: Rcpp, SQL, Hadoop, Flask, Excel