

Andrew B. Cukierwar

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EDUCATION

Washington University in St. Louis	St. Louis, MO
<i>M.S. in Computer Science, Graduate Certificate in Data Mining & Machine Learning</i>	December 2018
<i>B.S. in Computer Science, Second Major in Mathematics</i>	December 2018
<ul style="list-style-type: none">• Master's GPA: 3.7/4.0; Bachelor's GPA: 3.5/4.0; Major GPA: 3.7/4.0• Awards & Honors: Dean's List, Thomas H. Eliot Scholar• Relevant Coursework: Linear Algebra, Probability, Statistics, Stochastic Processes, Advanced Algorithms, Multi-Agent Systems, Artificial Intelligence, Machine Learning, Bayesian Machine Learning	

WORK EXPERIENCE

Boeing	St. Louis, MO
<i>Data Science Intern</i>	June 2018 – Aug 2018
<ul style="list-style-type: none">• Rewrote an internal application's ML infrastructure in Python to allow for external product distribution.• Trained a random forest classifier on Boeing 787 data to predict wire damage, reaching 90% accuracy.• Redesigned an in-house Microsoft Access legacy application as a web app using an Oracle database.	
Washington University in St. Louis	St. Louis, MO
<i>Teaching Assistant / CSE 557: Information Visualization</i>	Jan 2018 – May 2018
<ul style="list-style-type: none">• Helped students understand design theory and how to develop visualizations using D3 and Processing.• Conducted weekly office hours and graded assignments for a graduate level course of 40+ students.	
U.S. Census Bureau	Washington, DC
<i>Data Science Fellow</i>	June 2017 – Aug 2017
<ul style="list-style-type: none">• Developed a logistic regression classifier in Python to optimize the Commodity Flow Survey.• Classified shipments into 1 of 500+ product codes based on text descriptions and numerical features.• Applied bag-of-words model after cleaning malformed text descriptions from 3 million rows of data.	
Ogilvy & Mather	New York, NY
<i>Media Analytics Intern</i>	June 2016 – Aug 2016
<ul style="list-style-type: none">• Designed charts and drew strategic insights to build slides for monthly reports and competitive reports.• Created dashboard of monthly data to be delivered to the client, Showtime, on a weekly basis.• Maintained database by adding and cleaning data from various data streams.	

RELEVANT PROJECTS

Master's Project (In Progress)	Aug 2018 – Present
<ul style="list-style-type: none">• Applying reinforcement learning techniques to model No-Limit Texas Hold'Em poker.	
Bayesian NBA Game Prediction Model	Mar 2018 – May 2018
<ul style="list-style-type: none">• Predicted outcomes from 2017-18 games with an accuracy of ~70% solely using prior season data.• Trained a gaussian process regression model with an RBF kernel using pyGPs.	
EchoChamber (Google Chrome Extension)	Jan 2017 – May 2017
<ul style="list-style-type: none">• Created a Chrome extension to monitor the overall partisan bias of the news articles a user reads.• Trained a logistic regression classifier in Python to score and classify news articles, achieving 92% accuracy.• Scraped and processed 14,000 articles from 13 sources across political spectrum for training and testing data.	
NBA Lineup Cluster Analysis	Feb 2017 – Mar 2017
<ul style="list-style-type: none">• Applied clustering results to lineup data to determine the most effective combinations of player types.• Performed a k-means cluster analysis using 2016-17 season data to identify different player archetypes.	

SKILLS & ACTIVITIES

Technical Skills: (Proficient): Python, Java, D3.js; (Intermediate): R, SQL, MATLAB, C++.
Activities: Wash U Sports Analytics Club, Studio: TESLA Club, Zeta Beta Tau, Chess Club, IM Basketball.