Andrew B. Cukierwar

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EDUCATION

Washington University in St. Louis **St. Louis, MO**
M.S. in Computer Science, Graduate Certificate in Data Mining & Machine Learning December 2018
B.S. in Computer Science, Second Major in Mathematics December 2018

- **Cumulative GPA:** 3.5/4.0; Major GPA: 3.6/4.0
- **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**
Data Science Intern June 2018 – Aug 2018

- 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**
Teaching Assistant | CSE 557: Information Visualization Jan 2018 – May 2018

- 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**
Data Science Fellow June 2017 – Aug 2017

- 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**
Media Analytics Intern June 2016 – Aug 2016

- Designed charts and drew strategic insights to build slides for monthly 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

Congressional Phrase Evolution in the Media (Master's Project) **Sep 2018 – Dec 2018**

- Researched how new partisan Congressional phrases are introduced and continue to evolve in the media.
- Applied NLP techniques to Congressional speech text to produce millions of preprocessed n-gram phrases.
- Computed partisanship scores for each n-gram phrase using Pearson's chi-squared statistic.
- Scraped and processed text of 300,000+ articles from 6 liberal and conservative online news sources.

Bayesian NBA Game Prediction Model **Mar 2018 – May 2018**

- 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**

- 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**

- Performed a k-means cluster analysis using 2016-17 season data to identify different player archetypes.
- Applied clustering results to lineup data to determine the most effective combinations of player types.

SKILLS

Technical Skills: (Proficient): Python, Java, D3.js; (Intermediate): R, SQL, MATLAB, C++.