Nathan Drezner

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EXPERIENCE

Research Assistant

.txtLab - a laboratory for cultural analytics at McGill University

📅 October 2018 – Present   📍 Montreal, Canada

- Designed and oversaw a .txtLab project to study the salient language of disagreement and consensus building on Wikipedia
- Conducted data mining of Wikipedia using its API and **BeautifulSoup** and web scraping of Amazon using BeautifulSoup
- Used **sklearn**, **pandas**, and **igraph** in **Python** and **R** to conduct network analysis and use NLP and ML to study linguistic patterns
- Project overseen by Profs. Andrew Piper and Richard Jean So

Research Assistant

Timeless Riddles - a ROAAr project dedicated to transcribing, solving, and researching riddles found in early manuscripts

📅 April 2019 – Present   📍 Montreal, Canada

- Oversaw digital humanities analysis of riddles using in **Python** by classifying riddles and visualizing semantic change based on riddle periods, publishers, and locations
- Designed and built a web app to illustrate riddle movement over time with **MapBox** and **JavaScript**
- Worked with tools and datasets from **Gale** and **HathiTrust**
- Project overseen by Prof. Nathalie Cooke

Research Assistant

McGill Computational & Quantitative Linguistics Lab - a labratory to study fundamental questions about language acquisition, processing, use in society, and change over time

📅 November 2019 – Present   📍 Montreal, Canada

- Contributor for a project studying patterns of productivity and reuse in language
- Currently working on an algorithmic implementation of a qualitative model for productivity which will continue as an independent study in Spring 2019
- Project overseen by Prof. Timothy O'Donnell

Research Assistant

Opal Med Apps - a patient portal to empower cancer patients

📅 May 2018 – August 2018   📍 Montreal, Canada

- Worked with the Cancer Mission Patient's society to help illustrate their goals and mission statement with visual media
- Project overseen by Profs. John Kildea and Laurie Hendren

AWARDS

Arts Undergraduate Research Award

Given to support undergraduate students who undertake research during the summer under the direct supervision of a faculty member
$4,000 grant for work with .txtLab, 2019

SKILLS

- **Language**: Python, Clojure, JavaScript, Bash, R, Java, C, HTML, CSS, French (limited working proficiency)
- **Technologies**: scikit-learn, pandas, beautifulsoup, igraph, AWS, MapBox, Adobe CC

EDUCATION

McGill University

Candidate for Bachelor of Arts
(Double Major in Computer Science and English Cultural Studies)

📅 September 2016–Present

LEADERSHIP

President & Team Development

Canadian Intercollegiate Sailing - governing body for Canadian collegiate-level sailing

📅 January 2017 – Present

- Elected by a coalition of 18 teams across Canada to two terms as president of CICSA and one term as team development officer
- Oversaw development of an online scoring system built entirely from scratch and implemented a program to provide bursaries for underfunded teams in the league

PERSONAL PROJECTS

Network Analysis of Horror Films 🎧

- Studied themematic patterns, tropes, and the structure of the horror genre using social networks
- Project overseen by Prof. Ned Schantz

Wikipedia Picture of the Day

- Daily automated posting of Wikipedia's picture of the day on Instagram using both the Wikipedia API and Instagram API on @wikipictureoftheday

PUBLICATIONS

Reconciliation in Chaos 🎧

- Published in *The Channel*, McGill Department of English Undergraduate Review "**Reconciliation in Chaos: Tracing word distributions and sentiment in the monologues of *Palace of the End***", *The Channel*, March 26 2019
www.mcgillchannelundergraduatereview.com