



Nathan Drezner

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EXPERIENCE

Dash Solutions Architect

[Plotly](#) - provides online graphing, analytics, and statistics tools and web frameworks for individuals and collaboration

 February 2020 – Present  Montreal, Canada

- Develop Dash applications using the full-stack Dash Enterprise framework for internal use and external customers for industries including finance, government, and supply chain
- Work with tools including Plotly Dash, Apache Spark, Redis/Postgres
- Public facing apps include a [nursing home COVID monitor](#).

Research Assistant

[.txtLab](#) - a laboratory for cultural analytics at McGill University

 October 2018 – May 2020  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 [scikit-learn](#), [pandas](#), and [igraph](#) in [Python](#) and [R](#) to conduct network analysis and use NLP to study semantic patterns
- Project overseen by Profs. Andrew Piper and Richard Jean So

Research Assistant

[The Riddle Project](#) - a ROAAr project dedicated to transcribing, solving, and researching riddles found in early manuscripts

 April 2019 – April 2020  Montreal, Canada

- Built a website and several geospatial web apps at riddleproject.github.io to illustrate riddle movement over time using [MapBox](#) and [JavaScript](#)
- Oversaw digital humanities analysis of riddles using in [Python](#) by classifying riddles, using network analysis, and visualizing semantic change based on riddle periods, publishers, and locations
- Project overseen by Prof. Nathalie Cooke

Research Assistant

[Montreal Computational & Quantitative Linguistics Lab](#) - a laboratory to study fundamental questions about language acquisition, processing, use in society, and change over time

 November 2019 – May 2020  Montreal, Canada

- Contributor for a project studying patterns of productivity and reuse in language including designing an algorithmic implementation of a qualitative model for productivity
- Project overseen by Prof. Timothy O'Donnell

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, HTML, CSS, French (some working proficiency)
- **Technologies:** Dash, Plotly, Spark, Databricks, MapBox, pandas, scikit-learn

EDUCATION

McGill University

Bachelor of Arts


 September 2016–April 2020

- Double major in Computer Science and English, cultural studies

LEADERSHIP

President & Team Development

[Canadian Intercollegiate Sailing](#) - governing body for Canadian collegiate-level sailing

 January 2017 – December 2019

- Elected by a coalition of 18 sailing teams across Canada to two terms as president and one term as team development officer
- Managed development of an online scoring system

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

Everyday Specialization on Wikipedia

- Published by the McGill .txtLab. "Everyday Specialization: The coherence of editorial communities on Wikipedia", *.txtLab Collaborations*, September 30, 2020. txtlab.org

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. mcgillchannelundergraduaterewiew.com