

# Nathan Drezner



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## EXPERIENCE

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### Dash Solutions Architect

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

 February 2019 – 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](#).

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### 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

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### 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](http://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

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### 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

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## 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

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- **Language:** Python, Clojure, JavaScript, Bash, R, HTML, CSS, French (some working proficiency)
- **Technologies:** Dash, Plotly, Spark, Databricks, MapBox, pandas, scikit-learn

## EDUCATION

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### McGill University

Bachelor of Arts

 September 2016–April 2020


- Double major in Computer Science and English, cultural studies

## LEADERSHIP

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### President & Team Development

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

 January 2017 – December 2019

- 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

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### Network Analysis of Horror Films

- Studied thematic 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

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### 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.mcgillchannelundergraduaterewiew.com](http://www.mcgillchannelundergraduaterewiew.com)