

## Selected Works

### The Safety Net of Safety Nets (2023)

Timeframe: 2.5 weeks

An analysis of P2P mutual aid funding data in the context of traditional social programs/nonprofits.

**Stack:** Python (NLTK, SciKit); Jupyter (Pandas, matplotlib, numpy); Regex; ML (GPT); git; Quarto; Observable + JS; Adobe Ai + Ps

### Westminster's Top Dogs (2023)

Timeframe: 2.5 weeks

An analysis on the history of the Westminster Dog Show and the Best in Show winners.

**Stack:** requests; lxml; Jupyter (pandas, numpy); git; RAWgraphs; D3 + JS; HTML/CSS; Figma; Adobe Ai + Ps

## Experience

### Data Journalist

June 2023 — Present

I produce data-driven journalistic work; methods range from technical (data collection, statistical analysis), to design (prototyping, visualization) and traditional journalism.

### UX + Product Design Consultant (IC)

July 2018 — June 2023

Self - employed

I design MVPs and ship user-centric products.

- Mutually (July 2021 - May 2022)

I lead the design, development, and technical research for Y-Combinator incubation.

- Wellbeing+ (Nov 2019 - Dec 2020)

I translated back-end infrastructure into user features; I lead the end-end design process from conception to MVP\* and design systems.

*\*My MVP design for Wellbeing+ finished in the top 3 percentile at IBM's 2020 Think Build Grow competition.*

### Writer + Editor

Nov 2017 — June 2018

Self - employed

I researched and produced written works along with editing and proofreading services for University of British Columbia based clients.

### Data Scientist

May — Sept 2016

Ontario Institute for Cancer Research

I extracted and prepared large datasets on lab graphing data to automate scientific figure development using Perl, Regex, and HPC. Datasets then underwent statistical analysis and were visualized in R.

### Bioinformatician + Designer

Jan 2015 — Sept 2016

UWaterloo iGEM

I designed models\* of biological systems using Python, MATLAB, and BioLinux; I also lead the UI design of the 2015 & 2016 project pages.

*\*My work won best overgrad software tool at the 2015 international iGEM competition with UWaterloo winning Gold.*

### Designer + Developer

May — Aug 2015

Sparkgig

I created UX assets (wireframes, prototypes) and implemented responsive front-end designs.

## Education

Columbia University — Graduate School of Journalism (2023)

Data Journalism — Lede

University of Waterloo (2018)

BSc. Honours Biology; Mathematics Minor

*Computational biology specialization*

## Areas of Expertise

### Technical Overview

Scripting / Dev	Unix (CLI)	Scraping / APIS
Data Visualization	ML/AI	Statistical Analysis
LaTeX / Markup	Version Control	HTML / CSS

### Language Proficiency

Python, JS, Regex, MATLAB, R, Perl, Scheme, Bash

### Tools, Libs, Stacks Used

D3, Observable; Jupyter Lab (Pandas, matplotlib, Numpy); git, SVN; lxml, BeautifulSoup; Linux (Ubuntu, Kali); Vim; SSH, HPC; ai2html; Svelte; Webflow; Selenium; Datawrapper, RAWgraphs; Excel, Sheets; GeoJSON, QGIS, Mapbox; Quarto

### Design (UX, product, graphic)

Figma	Adobe Creative Suite	Sketch
UI Wireframing	Interaction Design	UX Writing
User flows	Design Systems	Prototyping
UX Strategy	User Research	Ethnography

### Miscellaneous

Visual Identity	Workshopping	Illustration
Technical, Copy, Grant, FOIA Writing		Editing

## Associations + Certifications

Registered Graphic Designers

Provisional RGD (2022 — present)

Junior Affiliate (2020 — 2021)

IBM Enterprise Design Thinking

Team Essentials for AI certification (2020)