

Zach Bogart

San Rafael, CA · (415) 342-8058

zlbogart@gmail.com · linkedin.com/in/zach-bogart · zachbogart.com · github.com/zachbogart

EDUCATION

MS DATA SCIENCE, COLUMBIA UNIVERSITY

Dec 2018

- Relevant Coursework: Exploratory Data Analysis and Visualization, Applied Machine Learning, Applied Deep Learning, Algorithms for Data Science, Probability and Statistical Inference

BA NEUROSCIENCE, BOSTON UNIVERSITY

Sep 2015

- Research: Building and surgically installing neuronal implants to acquire hippocampal place cell data in rats; mentored incoming researchers and developed a manual for implant manufacturing

EXPERIENCE

FREELANCE PROJECT MANAGER, FRACTL

Mar 2019

- In charge of data exploration project to rank cities for young millennial families
- Wrangled and cleaned data from three sources using pandas
- Developed eight visualization assets for the graphic design team using matplotlib and tidyverse
- Created interactive dashboards using Tableau, which were used to present results to the client

CURRICULUM DEVELOPMENT ASSISTANT, COLUMBIA UNIVERSITY

Aug 2018-Dec 2018

- Created educational resource for Columbia data science course in R, used by hundreds of students
- Developed technical tutorials and custom tidyverse visualizations across all chapters
- Published with bookdown and GitHub Pages backend, allowing for student contributions
- Created custom brand identity (font, logo, chapter icons) using Illustrator
- Received honorable mention in 1st Bookdown Contest

PROJECTS

CANCER HEATMAP, COLUMBIA DEEP LEARNING COURSE

Sep 2018-Dec 2018

- Predicted cancerous regions of lymph node slide images (CAMELYON16) using a CNN
- Trained CNN using Tensorflow backend (Keras) on subimages of slide and mask overlays
- Generated heatmap of cancerous regions in novel slide to be used to inform medical personnel

MICE BEHAVIOR CAPSTONE, COLUMBIA CAPSTONE PROJECT

Sep 2018-Dec 2018

- Performed data exploration of mice behavior by species in R using violin plots
- Created poster presentation in Affinity Designer, and end-phase deliverables (progress reports)

SKILLS

- Python (pandas, numpy)
- Machine Learning (sklearn, Spark)
- R (tidyverse, bookdown)
- HTML/CSS
- Git
- Affinity Designer/Adobe Illustrator

ACTIVITIES

BOARD MEMBER, COLUMBIA DATA SCIENCE SOCIETY

Oct 2017-Dec 2018

- Organized data science events around campus and annual hackathon
- Workshops: Presenting Work Using bookdown; GitHub Basics

ICON DESIGN, NOUN PROJECT

Aug 2018-

- Created 2000+ icons for sale on the Noun Project using Affinity Designer