

Caitlin Gilbert

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Data Scientist and PhD Candidate in Biomedical Sciences with expertise in neuroscience, science writing and communication. For my thesis work, I have developed skillsets in data mining, statistical modeling, machine learning, and data visualization.

Experience

Rockefeller University, PhD Student, September 2015 - May 2021 (Expected)

- Studied songbirds to understand the epigenetic basis of speech and language acquisition
- Developed novel bioinformatic pipelines to study genomic signatures of the songbird brain
- Applied data science tools including visualization, data wrangling, and statistical analyses to understand phenomena and communicate research findings

Associated Press, Contractor, September 2020 - November 2020

- Worked on the Elections Scraping Team for several primary elections as well as the general election
- Researched specific election information for counties and states to establish best practices for mining results
- Analyzed how congressional and state-legislature balance of power changed during the November election

Biden For President, Data & Organizing Consultant, March 2020 - November 2020

- Created the organizational structure for the Biden Digital Coalition, a grassroots volunteer group that worked to foster engagement and amplify policy points for the candidate across social media platforms
- Tracked and analyzed data about political messaging on Twitter, Reddit, Facebook, Instagram, and TikTok
- Developed pipelines to track and monitor the spread of disinformation across social media platforms

Summer Neuroscience Program, Co-Director, September 2017 - September 2020

- Led all aspects of competitive neuroscience outreach program for underserved NYC public high school students
- Taught advanced lectures on subjects including evolution, genetics, language development, and cognitive/neurodegenerative disorders

Pete for America, Data Team Lead, January 2020 - March 2020

- Developed the Digital Captains data team's strategy to maximize online engagement and outreach across social media
- Aggregated social media data, performed engagement analytics, and visualized engagement across platforms
- Created database for a novel canvassing program ("Digital Door Knocking") based on public Twitter data of online supporters

Harvard Medical School, Research Assistant, June 2013 - June 2015

- Worked on potential treatment for Rett Syndrome and studied its underlying genetic mechanisms

The Hoya Newspaper, Writer/Columnist, November 2009 - December 2012

- Wrote biweekly column exploring the underlying neurobiological and psychological bases for common human behaviors, providing thorough scientific perspectives of issues relevant to college students

Education

Rockefeller University, Doctor of Philosophy (PhD), Biomedical Sciences, 2015 - May 2021 (Expected)

Georgetown University, Bachelor of Science (BS), Neurobiology, 2009 - 2013

Skills and Languages

SOFTWARE: Data acquisition/analysis in *R*, *Python*, and *Bash* | *Github/Git*, including collaborative work

DESIGN: 15 years of experience with *Photoshop*, *Illustrator*, and *InDesign* | *HTML*, *CSS*, and *Shiny* for websites

LANGUAGES: Spanish | Chinese (Mandarin)