

# 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 and have applied these tools to political organizing and outreach for campaigns and grassroots groups.

## 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 statistical analyses to understand phenomena and communicate research findings

### Latino Community Fund/ProGeorgia, Data/Election Protection Consultant, November 2020 - January 2021

- Developed novel targeting models to identify mislabeled Hispanic voters in Georgia using voter file and census data
- Mapped turnout changes for age/race demographic groups across congressional districts, precincts, and counties in Georgia
- Tracked disinformation and voter suppression efforts specific to Georgia runoff elections across social media platforms

### 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

- Founded and led 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 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 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 Kinetix Group, Project Manager, January 2013 - June 2013

- Led team of consultants in a deep-dive analysis of healthcare insurance exchanges in the PP-ACA and created multidisciplinary final deliverables on stakeholder outcomes stemming from the legislation

## 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)