Caitlin Gilbert

PhD Candidate in Neuroscience with expertise in neurobiology, data science, science writing and communication. My thesis aims to understand the genetic underpinnings of speech/language acquisition. For this work I have developed skillsets in data mining, statistical modeling, machine learning, and visualization.

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Work Experience

Rockefeller University, PhD Student, Sep 2015 - Present

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

Pete for America, Data Team Lead, Jan 2020 - Mar 2020

- Developed the Digital Captains data team's strategy to maximize PFA's online engagement and outreach across social media platforms
- Built pipelines to aggregate social media data, perform engagement analytics, and to visualize engagement across platforms
- Led team of 50+ volunteers in implementing data strategy for the Digital Captains program
- Created database for a novel canvassing program ("Digital Door Knocking") based on public Twitter data of online supporters

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

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

The Kinetix Group, Project Manager, Jan 2013 - Apr 2013

- Led student consultants in a deep-dive analysis of healthcare insurance exchanges, specifically in the context of the PP-ACA, and created multidisciplinary final deliverables that incorporated design, writing, research, and oral presentation expertise

NextGen Journal, Writer, Sep 2010 - Dec 2012

- Wrote feature articles exploring the wide variety of behaviors and trends typical of modern youth culture and the neurobiological and psychological foundations behind them

The Hoya Newspaper, Writer/Columnist, Nov 2009 - Dec 2011

- 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), Neuroscience, 2015 - 2021

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

Skills

Programming languages: R, Bash
Software: Adobe Illustrator/Photoshop, Microsoft Office, Google Suite
Specializations: Statistical Analysis, Science Writing, Neuroscience, Bioinformatics