Nicole Frontero

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GitHub | Personal Website | LinkedIn | ResearchGate | Google Scholar

EDUCATION

Amherst College
Sep. 2016 – Dec. 2020
Bachelor of Arts in Statistics and Psychology
Amherst, MA

- GPA: 3.72/4.00

PROFESSIONAL EXPERIENCE

Pear Therapeutics - Marketing Analytics
March 2021 – May 2021
Commercial Data Intern
Boston, MA

- Extracted insights from hundreds of thousands of health insurance claims by writing SQL code to identify insurance coverage type of potential patients.
- Reviewed public health data and extracted statistical insights from data to inform patient advocacy efforts.

McLean Hospital - Center for Depression, Anxiety, and Stress Research
June 2019 – July 2019
Data Science Intern
Belmont, MA

Supervisor: *Yuen-Siang Ang*, Principal Investigator, A*STAR - Institute of High Performance Computing; former Postdoctoral Research Fellow, McLean Hospital - Laboratory for Affective and Translational Neuroscience

- Cleaned and wrangled longitudinal data pertaining to adolescent mental health. Produced an organized and filtered set of observations, facilitating further analysis.
- Co-authored a paper of our results (published in *Brain: A Journal of Neurology*).

Amherst College - Department of Psychology
Sep. 2018 – Dec. 2019
Undergraduate Research Assistant
Amherst, MA

Supervisor: *Michael Cohen*, Assistant Professor of Psychology, Amherst College

- Conducted cognitive psychology study researching peripheral vision. Participated in study design, recruited participants, and collected data by leading participants through experimental paradigm.
- Presented initial findings at the Vision Sciences Society 2019 Annual Meeting.
- Co-authored a paper of our results (published in *Journal of Experimental Psychology: General.*)

McLean Hospital - Center for Depression, Anxiety, and Stress Research
June 2018 – Aug. 2018
Clinical Research Intern
Belmont, MA

Supervisor: *Maria Ironside*, Associate Investigator, Laureate Institute for Brain Research; former Postdoctoral Research Fellow, McLean Hospital - Laboratory for Affective and Translational Neuroscience

- Conducted phone screens to recruit patients for a clinical psychology study researching the physiology and neurology of depressed individuals.
- Contributed to data collection by leading first section of study visit with participants. Explained the steps of the study to participants and obtained consent for participation.
- Processed participant blood samples in the wet lab.

Amherst College - Admission & Financial Aid
Jan. 2018 – Dec. 2018
Tour Guide
Amherst, MA

- Provided informative and engaging tours to prospective students and their families. Tour groups ranged in size from 2 to 60 individuals.

Amherst College - Department of Biology   June 2017 – Aug. 2017
Summer Undergraduate Research Fellow   *Amherst, MA*
Supervisor: *Ethan D. Clotfelter*, Professor of Biology and Environmental Studies, Amherst College

- Collected field research data on tree swallows *(Tachycineta bicolor)* in the outdoor Amherst College Bird Sanctuary by tracking the health of 100+ nests.
- Recorded the number of hatched eggs, birds that had fledged the nest, and live birds in each nest.
- Drew blood from birds to collect blood samples and took measurements of the birds' size.
- Collected data on the health of the nests by dissecting the nests and counting the number of parasites in them.

PUBLICATIONS

- Ang, Y.-S., Frontero, N., Belleau, E., & Pizzagalli, D. A. (2020). Disentangling vulnerability, state and trait features of neurocognitive impairments in depression. Brain, 143(12), 3865–3877. https://doi.org/10.1093/brain/awaa314

- Cohen, M. A., Ostrand, C., Frontero, N., & Pham, P.-N. (2021). Characterizing a snapshot of perceptual experience. Journal of Experimental Psychology. General. https://pubmed.ncbi.nlm.nih.gov/33523689/

PROJECTS

Trails Near Amherst College   Nov. 2020 – Dec. 2020
- Taught myself about geospatial data structures by consulting online resources. Learned how to project 3D data onto a 2D space, perform geospatial operations, and use Leaflet in R to showcase geospatial data.
- Created an interactive map of the trails surrounding Amherst College and an interactive table of the trail lengths.
- Built a website using R Shiny to showcase these tools. Wrote a technical report to accompany the website.

R package: `satellites`   Nov. 2020
- Created an R package called `satellites` that contains data on the satellites orbiting Earth as well as a data dictionary (source data from Union of Concerned Scientists Satellite Database).
- Created a README that details how to install the package, details on the data set, and examples of analyses that can be run on the data in the package.

Campus Mental Health Exhibit   Sept. 2017 – Mar. 2018
- Conceived idea to create an exhibit on the Amherst College campus for students to share mental health experiences.
- Served as leader of a team that worked to create the exhibit on campus. Delegated tasks and kept project on schedule. Successfully curated exhibit and displayed participant testimonies in campus center.
- Organized a reception for the exhibit opening, attracting over 100 campus community members, as well as the college president.

CONFERENCE PRESENTATIONS

- Cohen, M.A., Ostrand, C., & Frontero, N. (2019) Characterizing a snapshot of perceptual experience. Presented at the Vision Sciences Society Annual Meeting, Florida, USA.

POSTERS

- Frontero, N. (2018, September 7). Examining Bilingualism and Inhibitory Control. Summer Research Poster Session, Amherst College, Amherst, MA.

- Frontero, N. (2017, September 8). Temperature, Clutch Initiation Date, and Reproductive Success in Tree Swallows (Tachycineta bicolor). Summer Research Poster Session, Amherst College, Amherst, MA.

Languages

English: Native speaker
Spanish: Full professional proficiency

Technical Skills

Programming: R (advanced), SQL (intermediate), Python (beginner; currently self-teaching)
Tools: LaTeX, Markdown, Microsoft Office, Google Workspace, Slack
Web Development: Shiny
Version Control: Git, GitHub
Workflow: RStudio, IntelliJ IDEA
Libraries: Leaflet

Awards and Honors

Gregory S. Call Student Research Award   June 2019
Amherst College   *Amherst, MA*
- A grant award to support student research.

Senior Cup   June 2016
Wellesley High School   *Wellesley, MA*
- An award voted on by peers based on an individual's character, school citizenship, scholarship, and activities.

Volunteering

Adolescent Wellness, Inc.   June 2021 – present
Board Member   *Naples, FL*
- Oversee and guide mental health advocacy non-profit Adolescent Wellness, Inc. as a board member.
- Advocate for depression and anxiety prevention by promoting coping and help-seeking skills.
- Draw upon my prior experience as a teen discussion facilitator of Boston Children's Hospital's Break Free From Depression curriculum.

Active Minds - Amherst College Chapter   Sep. 2017 – Dec. 2018
Co-Chair   *Amherst, MA*
- Co-led student organization focused on mental health advocacy on campus. Led meetings and organized mental health advocacy events on campus.

Amherst College - Student Affairs   Aug. 2017
Orientation Leader   *Amherst, MA*
- Introduced new students to campus by leading discussions with students about sexual respect, academic integrity, and bystander intervention.

Rotary International - Interact Club of Wellesley   Sept. 2013 - June 2016
Club Secretary   *Wellesley, MA*
- Taught Break Free from Depression curriculum to 500+ high school aged students to help prevent the development of depression. Effectiveness of curriculum demonstrated through pre and post survey results.
- Spearheaded campaigns to promote the use of curriculum, providing a successful model that was ultimately emulated by newly formed Rotary teen Interact groups both nationally and internationally.
- Presented curriculum material to groups ranging in size from 12 to 400 people.