

Nicole Frontero

(781) 307-8455 | nicolefrontero@gmail.com

[GitHub](#) | [Personal Website](#) | [LinkedIn](#) | [ResearchGate](#) | [Google Scholar](#)

EDUCATION

Amherst College

Bachelor of Arts in Statistics and Psychology

- GPA: 3.72/4.00

Sep. 2016 – Dec. 2020

Amherst, MA

PROFESSIONAL EXPERIENCE

Pear Therapeutics - Marketing Analytics

Commercial Data Intern

March 2021 – May 2021

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

Data Science Intern

June 2019 – July 2019

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

Undergraduate Research Assistant

Sep. 2018 – Dec. 2019

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

Clinical Research Intern

June 2018 – Aug. 2018

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

Tour Guide

Jan. 2018 – Dec. 2018

Amherst, MA

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

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.

TECHNICAL SKILLS

Languages: English (fluent), Spanish (fluent)

Programming: R

Tools: SQL, 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.