

Andrew Tamalunas

11821 Ridge Pkwy, Broomfield, CO
(864) 612-8291 atamalu@g.clemson.edu
<https://github.com/atamalu>

Education

BS in Psychology

May 2016

Minor in Management

Clemson University, Clemson, SC

Research Experience

Statistical Consultant

July 2018 - Present

University of Colorado – Boulder

- Explored, graphed, statistically analyzed, and reported fluorescence calcium indicator time series data using R and MATLAB
- Designed use of a metric to accurately measure changes in calcium activity without sacrificing interpretation
- Proofed and re-wrote an automated data collection script in Python with Raspberry Pi

Graduate Research Assistant

August 2017 - June 2018

Seton Hall University

- Performed literature searches and data collection
- Created an elaborate graph in R explaining a common statistical method for a textbook
- Assisted in setup and teaching for a biopsychology laboratory course

Research Assistant

September 2016 - July 2017

University of Colorado – Boulder

- Statistically analyzed neurobiological data using R, SPSS, and GraphPad for a published paper
- Performed graphing for a journal publication in R

Research Assistant

August 2015 - January 2016

Clemson University

- Carried out lengthy research studies involving four participants using a NASA space-based computer simulation.
- Collected literature and wrote reviews on neuroleadership and charismatic leadership

Professional Experience

Retail Sales Associate

August 2016 - December 2016

Fanatics

- Input sales data into Microsoft Excel
- Managed and instructed temporary workers on sales and procedures
- Carried out basic sports retail procedures such as working a register

Laboratory Intern

June 2015 - July 2015

Premier Medical Laboratory Services

- Constructed a drug toxicology sheet in Excel containing physiological and psychological information on over 60 drugs.
- Updated and maintained drug database

Conference Presentations

Fallon IP, Baratta MV, Leslie NR, Dolzani SD, Chun LE, Tamalunas AM, Watkins LR, Maier SF. (November, 2017). Evaluating stressor controllability effects in female rats. *Society for Neuroscience*, Washington D.C.

Publications

Baratta, M. V., Leslie, N. R., Fallon, I. P., Dolzani, S. D., Chun, L. E., Tamalunas, A. M., Watkins, L. R., Maier, S. F. (2018). Behavioural and neural sequelae of stressor exposure are not modulated by controllability in females. *European Journal of Neuroscience*, 47(8), 959–967. <https://doi.org/10.1111/ejn.13833>

Andrew Tamalunas (2019). GCalcium: A Data Manipulation and Analysis Package for Calcium Indicator Data. R package version 1.0.0. <https://cran.r-project.org/web/packages/GCalcium/index.html>

Individual Projects

Simulation Studies

- A series of hypothetical experimental designs in assorted fields, followed by statistical analyses
- Informal write-ups showing logic behind decisions and exhaustive explanation of result interpretations

Web Scraping

- Visual reports explaining how to use R to retrieve, clean, visualize, and analyze baseball data from a commonly-used MLB data source
- R functions to gather data from the official NBA API

- Retrieving data from the NFL Fantasy API and storing in SQL

BlueStacks ADB

- Python functions to easily control the BlueStacks android emulator