Jack Hester

Education

Emory University; Atlanta, GA   Fall 2015-Spring 2019

Bachelor of Arts, Interdisciplinary Studies: Emphasis in upstream healthcare and behavioral modeling
  Thesis: "A Verb-Based Approach to Mining Adverse Drug Side-Effects from Online Health Care Forums"

Brown University; Providence, RI   Incoming Fall 2019

Master of Public Health

Work Experience

Teaching Assistant, Emory University QSS/LING/SOC; Atlanta, GA   January 2019-Present

- Assisted the professor of "Big/Small Data Visualization," a cross-listed course between the quantitative science, linguistics, and sociology majors. Responsibilities included coding and updating natural language processing (NLP) software and GUIs for student use, helping students in class and with homework assignments, and assisting with grading.

Full Stack Developer, Workwinz; Atlanta, GA and Reno, NV   May 2018-October 2018

- Programmed a website and backend for an employee incentivization startup. Designed a front-end website using HTML, CSS, PHP, and JavaScript, and back-end user and rewards databases and login protocols using MySQL, AWS hosting, and Google APIs.

Research Intern, Emory University, Institute for Liberal Arts; Atlanta, GA   March 2017-July 2017

- Designed and programmed a prototype website for "Philosophy in Science" website that allows readers to navigate between examples and stories to enhance understanding of philosophical principles.

Intern, Creative Content Department, The Abbi Agency; Reno, NV   June 2016-August 2016

- Authored press releases, responses to requests for proposals, event descriptions, and gathered similar materials for customers ranging from city governments to mortgage companies, as well as for internal agency use.

Software Engineering Intern, Marketing Evolution; Reno, NV   June 2015-July 2015

- Created mock-ups of an Apple Watch app storyboard, describing the app flow and the desired user interaction. Programmed the front end of a Swift application for the Apple Watch and iPhone. The app parsed server data and created a simple interface to provide users with important information (e.g. ROI) at a glance.

Volunteer and Shadowing Experience

Ski Instructor, Sky Tavern Junior Ski Program; Reno, NV   December 2012-January 2016

- Certified ski instructor at largest not-for-profit community ski program in US. Learned to ski in adaptive ski school and later volunteered over 250 hours teaching both able-bodied and adaptive skiers.

Intern, Shriners Hospital; Sacramento, CA   May 2015

- Assisted with repairing and building prostheses in the Pediatric Orthotic and Prosthetic Lab, shadowed prosthetists during patient visits, and shadowed an orthopedic doctor in the

Ambulatory Clinic. I was previously a patient there and was able to work behind the scenes in departments where I had received care.

Job Shadowing, Renown Hospital; Reno, NV   June 2014

- I shadowed a pathologist and participated in the collection of samples in the operating room and viewed slides of the samples. I was able to see numerous types of tumors, growths and diseases that were present in the samples as well as see how the pathologists interact with surgeons to improve patient outcomes.

Presentations

J. Hester, C. Baden. *Beautiful Data: Visualization techniques for research and classrooms,* Critical Juncture 2019: April 6 2019.

Doing Away with the Drudgery of Hand-Coded Content Analysis, 37th Annual Southeastern Undergraduate Sociology Symposium; Atlanta, GA: February 23, 2019.

A New Standard for Discovering Side Effects: Using linguistic analysis algorithms to predict prescription drug side effects from online forum posts, Emory University Undergraduate Research Symposium, Atlanta, GA: April 25, 2018.

Mining Adverse Drug Side Effects from Online Forum Posts, ILA Undergraduate Research Symposium, Atlanta, GA: April 20, 2018.

A. Stutz, B. Greenfield, **J. Hester**, J. Sarrett, K. Dreffs, R. Kolb. *Perspectives on the Inclusion and Success of Students with "Disabilities" in Colleges and Universities,* Emory Inclusion Summit, Atlanta, GA: April 19, 2018.

Mobility at a Standstill: Improving flawed transportation and accessibility in the US, Critical Juncture 2017, Atlanta, GA: March 18, 2017.

Fellowships

Franklin Fellows, Emory University; Atlanta, GA   Fall 2017-Spring 2019

- Through a series of group events, such as film discussion groups and dialog with visiting scholars, the fellowship focuses on extending and expanding a liberal arts education during the undergraduate college years. Its goals include improving critical thinking, close reading, and clear, cogent writing.

TRAIN Fellowship, Emory University; Atlanta, GA   Fall 2017-Spring 2018

- Worked on Translational Research and Innovation Network (TRAIN) projects including designing and developing open source code for a drone model using Arduinos software and producing model parts using a 3-D printer.

Clubs

Undergraduate Disability Studies Initiative (Emory University)	Fall 2015-Spring 2019
Reformed University Fellowship (Emory University)	Fall 2015- Spring 2019
Emory Rocketry Club	Fall 2016-Spring 2017

Professional Memberships and Certifications

American Planning Association

American Public Health Association

Professional Ski Instructor of America—Level 1 instructor with child specialist certification

Certification, CITI IRB—Basic Human Subjects Protection: Social/Behavioral Focus

Technical Skills

Data Visualization: Gephi, Stanford CoreNLP, Sentiment Analysis, Word Clouds, nGrams, KWIC tables, QGIS, and ArcGIS Pro; including university coursework in data visualization, marketing, and advertising and an ESRI course in ArcGIS cartography.

Statistics: R/R Markdown and SPSS; including university coursework in statistics, linear algebra, and differential equations and APHA Learning Institute course in "Biostatistics for non-statisticians"

Programming: Python, Java, HTML/CSS, PHP, SQL, and Swift; including coursework in algorithm design.

Languages: English and Spanish.