

James Aaron Ellis

WORK EXPERIENCE

Data Analyst / Developer STATS

2015 to present

Write and maintain queries in Oracle SQL for NBA and NFL teams. Build statistical reports for clients using C#. Interact directly with clients and interface with other departments regularly. Create responsive visuals in JavaScript used to attract prospective clients. Write content for marketing department and company blog.

- Oracle SQL, C#/.NET
- Visual Studio

UX Consultant

2015

Kenna Security

Analyzed web traffic and quantified user interactions. Used AWS S3, Salesforce, and Kissmetrics APIs to stream and analyze user behavior. Created interactive visualizations for sales and marketing. Worked remotely and kept constant communication with Chief Data Scientist and Product Marketing Manager.

- Amazon Web Services (AWS) S3
- API integration

Quantitative UX Research Intern

2013

Mozilla

Used click-level events from a two-thousand participant study to create a story about tab and window usage. (One of the largest-ever Mozilla studies.) Tracked 1.5 million individual tabs over a three-week period. Presented results in company-wide broadcast (online @ <https://air.mozilla.org/intern-presentation-ellis/>).

- Interactive data visualizations using D3 (JavaScript)
- Exposure to Hadoop and Map-Reduce using Python scripts

UX Research Assistant

2012

Google

I joined the Google [x] User Research team at a pivotal time for Project Glass. The product was slated for shipment to developers in a matter of months and the user interface (UI) needed a fundamental redesign. I conducted benchmark studies of Project Glass, and a separate comparison of multiple UIs that led to a decision on the primary User Interface and general design improvements. Independently: conducted a week-long benchmark of two Android OS versions to compare with task performance on Project Glass UIs.

- RITE testing; user interviews; benchmarking
- Survey design and analysis

Graduate Student Researcher

2012 - 2015

Neuroscience and Robotics Laboratory

Modeling of neural signals from the brain related to sensorimotor perception. This involved decomposing the electrical signal arising from brainstem neurons and correlating it with mechanical variables imposed by external stimuli.

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WHO I AM AND WHAT I DO

I'm a trained neuroscientist who fell in love with the world of analytics and technology, prompting an early exit from my doctoral studies. I live to make stories out of data, to find their hidden meaning, and to deliver this message to any audience.

WEBSITE

My website jaellis.com is the best resource for examples of my work, interests, and personality.

EDUCATION

Master of Science *Northwestern University*
NEUROSCIENCE

Bachelor of Arts *Franklin and Marshall College*
BIOLOGICAL FOUNDATIONS OF BEHAVIOR

TECHNICAL SKILLS

Most Proficient SQL, HTML5, CSS, MATLAB
Less Proficient Git, Python, JavaScript, C#/.NET
Linux, Excel
Some Exposure R, PostgreSQL, Weka, SPSS

COMMUNICATION SKILLS

HACKATHONS Re-designing American Cities
I led my team in creating an app (in 24hrs) that was awarded a finalist's position
PBS: POV Hackathon 9
I designed the navigation segment of our Participant's Choice Award-winning site

POSTERS Cognitive Neuroscience Society
Biological Psychiatry Conference
Society for Neuroscience

SELECTED PUBLICATIONS

MN Pavuluri, **JA Ellis**, E Wegbreit, AM Passarotti, MC Stevens (2012) Pharmacotherapy impacts functional connectivity among affective circuits during response inhibition in pediatric mania *Behavioural Brain Research*

E Wegbreit, **JA Ellis**, A Nandam, JM Fitzgerald, AM Passarotti, MN Pavuluri, MC Stevens. (2012) Amygdala functional connectivity predicts pharmacotherapy outcome in pediatric bipolar disorder. *Brain Connectivity*

Complete list of publications: [Google Scholar page](#)