

Alyssa Frazee

San Francisco, CA
alyssa.frazee@gmail.com
651-470-3980

alyssafrазee.com
[GitHub](#) (@alyssafrазee)
[Twitter](#) (@acfrазee)
[LinkedIn](#)

[Public Speaking](#)
[Writing / Blog](#)

CURRENT TECH STACK

Ruby (Sinatra), JavaScript (React, some Coffeescript), Scala (Scalding), SQL (Postgres), Python (general purpose, scikit-learn, airflow, pandas), R

EDUCATION

Johns Hopkins University, Baltimore, MD

PhD, 2015
Biostatistics

St. Olaf College, Northfield, MN

BA, 2010
Math, Statistics minor

EXPERIENCE

[Stripe](#), San Francisco, CA, 2015 - present

Senior software engineer (security) — August 2018 - present

Senior software engineer (machine learning) — September 2017 - August 2018

Software engineer (machine learning) — March 2015 - September 2017

- Built models and API interfaces for [Radar](#), Stripe's ML-based fraud protection product for businesses. Reduced overall fraudulent chargeback rate by ~25%.
- Did frontend, backend, and experimental design work to ~double adoption of 2FA for the [Stripe Dashboard](#).
- Led successful rebuild of internal operational tooling to gather requisite data for future real-time risk modeling to prevent fraudulent dashboard activity.

Expert Witness Training Workshop, San Francisco, CA, March 2018

I was selected for a two-day workshop for PhDs in quantitative fields to learn how to serve as a technical expert witness in court cases involving possible gerrymandering. Expert witnesses are required to use public data to quantify fairness of district maps and form an argument as to whether the map violates the Voting Rights Act.

Workshop was led by the [Metric Geometry and Gerrymandering](#) group from Boston.

[Recurse Center](#), New York, NY, Summer 2013

Programming retreat/sabbatical

Built a web app, text editor extension, text-based game, and scheduling app to assign teaching assistants to lab sessions for a 500-student course I co-taught later in 2013.

PROJECTS

Estimating the gender gap in open-source software (2014): I gathered my own data and wrote a [blog post](#) in 2014 where I estimated the percentage of GitHub repositories owned by each gender. Featured in FiveThirtyEight's [weekly roundup](#) of their favorite data journalism.

Guide to R for beginners (2014): I wrote a [blog post](#) on introducing R to a non-programmer. It became relatively popular (with over 10K pageviews in its first day and an appearance on Hacker News).

Committee Checker (2014): I made an [app](#) that students in my department could use to make sure their oral exam committee satisfied all of the school's requirements. It was still being used as of fall semester 2017.

PhD research (2011-2015): I published [several papers](#) and two R packages with O(10K) downloads each during my PhD