

# Spencer Boucher

## EDUCATION

**RICE UNIVERSITY**  
BA Cognitive Sciences  
2008 – 2011

**USF**  
MS Analytics  
2013 – 2014

## CONTACT

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## COURSEWORK

Distributed Computing  
Distributed Databases  
Multivariate Statistics  
Machine Learning  
Data Visualization  
Text Mining

## SKILLS

JavaScript  
Python  
Scala  
L<sup>A</sup>T<sub>E</sub>X  
SQL  
nix  
R

## AWARDS

Eagle Scout

## INTERESTS

neuroscience  
visualization  
teaching  
design  
GIS

I enjoy learning new things just as much as I love teaching and communicating ideas to others. My goal is to always be working on hard, interesting problems that require creativity.

## EXPERIENCE

**UBER DATA SCIENTIST**  
JANUARY 2014 – PRESENT

- Developed and implemented an algorithm for ranking restaurants in the Uber Eats mobile app, personalized for each individual user to make sure they can find their perfect meal.
- Optimized the dispatch radii of restaurants on the Uber Eats platform to minimize delivery time and maximize value.
- Served as machine learning liaison to multiple teams, onboarding diverse machine learning use-cases onto a new centralized machine learning platform, including churn models, supply prediction, and rating systems.
- Implemented crucial back end features of Uber's internal machine learning platform, including performance reports and diagnostic dashboards for trained machine learning models.
- Performed analysis and modeling that powered data driven decision making and strategic expansion of operations in the United States and abroad.
- Developed Bayesian models to infer ride sharing market conditions in cities around the world.
- Authored numerous ETL pipelines in Python and Hive to craft high velocity, high volume raw data into useful features for statistical modeling.

**AUTOGRID INTERN**  
FALL 2013

- Used Pandas and R to munge large volumes of smart meter data.
- Developed time series and cross-sectional models to identify outliers and make forecasts about demand.
- Produced interactive statistical tools and maps for exploring complex data.

**EXAMKRACKERS COURSE INSTRUCTOR**  
SPRING 2013

- Taught MCAT level physics, chemistry, biology, organic chemistry, and verbal reasoning to a class of ~12 students.

**STANFORD CIBSR RESEARCH ASSISTANT**  
2011 – 2013

- Worked with children diagnosed with bipolar and/or ADHD on a daily basis, conducting clinical MRI studies.
- Analyzed structural and functional neuroimaging data using R and MATLAB.
- Presented findings at the 2012 American Academy of Adolescent and Child Psychiatry Conference.
- Taught an introduction to neuroscience seminar "The Neuroscience of Zombies," targeted at middle school / junior high school students.

**RICE EMS EMERGENCY MEDICAL TECHNICIAN**  
2010 – 2011

- Responded to medical emergencies on the Rice University campus.
- Served weekly 12 hour shifts.
- Completed > 24 hours per semester volunteering for professional EMS services in the greater Houston area.