Matthew J. Delhey

2035 Sheridan St
Houston, TX 77030

Phone: (770) 312-3475
Email: matt.delhey@rice.edu
Homepage: mattdelhey.com

Education

Rice University B.A. Statistics, Philosophy *Expected December, 2014.*

M.A. Statistics *Expected May, 2015*

Coursework GPA: 3.54 Statistics GPA: 3.8

- Data Mining & Statistical Learning
- Machine Learning
- Database Systems
- Data Analysis & Visualization
- SAS Statistical Programming
- Parallel Computing

Skills & Activities

Programming Languages R, SQL/Hive, Unix, C, C++, Python, SAS, Matlab.

KTRU (Rice Radio Station) Technical Director & Station DJ

Experience

TripAdvisor *Data Scientist Intern* May 2013 - August 2013

- Evaluated the impact of television ads on website traffic, creating a robust model for traffic prediction in R, automated for individual ad assessment. The results served as the primary consideration in TripAdvisor's expansion to a national television advertising campaign.
- Created "Best of" list for honeymoon hotels & cities across several countries, identifying relevant reviews through text analysis and regular expressions in Hive and creating the ranking algorithm in R.
- Created NLP backend in R for Hackathon project for topic detection of restaurant reviews, resulting in a new sorting option for users.

Projects

(Full reports and code available at mattdelhey.com/projects.)

Independent Research on Interactive Visualization Analytics

- Developed Shiny (R library) web application, flyvis.com, in order to explore improving data analysis through the use of interactive web visualization.
  - Application allows users to analyze airport usage in America. In our paper we demonstrate using our application to find subsets of the dataset whose flight delays can be successfully modeled.
- Presented our research which outlines both the application and the design take-aways for future interactive visualizations, receiving an A in the course.

Participation in Kaggle competitions

- Stat640: Movie Recommender – Problem similar to Netflix prize; implemented ensemble of various SVD algorithms and KNN using R and LensKit Java framework.
- Titanic – Ensembled & cross-validated multiple models using R and waffles (C++ framework)