

(917) 617 9342
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Languages	Proficient: Python, R, SQL	Familiar: SAS, C++, C, MATLAB, HTML5/CSS, AWK
	Python Libraries: Numpy, Pandas, Sklearn, Matplotlib, PySpark, Re	R Libraries: Tidyverse
Tools	AWS EC2, GCP, Azure Data Lake, Hive, UNIX/Bash, Tableau, Git	

RailTEC, University of Illinois at Urbana-Champaign Champaign, IL
Research Assistant *Train Risk Analytics Group* Jan 2016 - May 2017

- Conducted a quantitative spatial analysis on the effect of speed on derailment severity
- Applied regression methods and developed data visuals in R for investigating trends
- Acquired open datasets to create US heatmaps to identify high areas of casualties
- Debugged and implemented data integration for four datasets (over 3 million) in SQL server

Projects **Machine Learning & Computational Statistics Projects** [stacy-lee.github.io/projects.html]

- Time series with fourier seasonality on Walmart sales data achieved WMAE less than 1630
- Logistic regression for movie review analysis with NLP achieved AUC greater than 0.95
- Monte Carlo method to identify Weibull PDF in Traffic Volume Counts 2012 NYC Open Data

Involvement	Civil Engineering Undergraduate Advisory Board <i>President</i> Champaign, IL 2016 - 2017 <ul style="list-style-type: none"> Established the first undergraduate advisory board in the civil engineering department Organized social events of ~50 attendees to increase student and professor interactions
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