

# Howard Wang

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## Education

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### Rice University

*Master of Computer Science*

Houston, TX

Expected May 2021

- Probabilistic Algorithms for Big Data, Compilers, Databases, Workplace Communication.
- Data Structures and Algorithms, Intro to Machine Learning, Cloud Computing with Big Data, Database Systems. (at WUSTL)

### The University of Texas at Austin

*B.S. in Mathematics*

Austin, TX

Aug 2014 - Dec 2018

- Coursework focused in Statistics, Applied Mathematics, Scientific Computing, and User Experience.
- Activities: Intramural Soccer, Math Club, Actuarial Science Club, Texas Advanced Computing Center.

## Experience

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### Cirrus Logic

*Statistician Intern (Product Engineering Team)*

Austin, TX

Summer 2018

- Semiconductor company that specializes in analog/mixed-signal IC and designs audio products for companies such as Apple.
- Developed a web application (using R, Shiny framework) called 'SBL MOTOR', from conception to completion, used to analyze silicon wafers in Apple's devices and help engineers visually monitor false holds/false releases based on wafer bin limits.
- Improved the speed of Markov Chain Monte Carlo (MCMC) algorithm greatly by using Rcpp and C++.
- Wrote complex SQL queries to retrieve silicon wafer data from Oracle database.
- Analyzed silicon wafer data using Python (Pandas, Matplotlib, NumPy) and Excel.
- Consulted with product engineers, database administrators, and a bayesian statistician to design UI for the application.

### SAS Institute

*Software Developer Intern (Visual Analytics Development Team)*

Cary, NC

Summer 2016 and Summer 2017

- Analytics software company that provide a suite of software to help other companies analyze, manage, and report data.
- Fixed UI defects and worked on small features in SAS Visual Analytics working with JavaScript/TypeScript, HTML, CSS, jQuery, OpenUI5, and IntelliJ.
- Presented Poster of summer work at intern expo to other interns and company leaders.
- Participated in A/B testing to help improve product usability.
- Collaborated with software developers, testers, managers, ux designers, and technical writers.

### The University of Texas at Austin

*Research Assistant (Linguistics Department)*

Austin, TX

Jan 2017 - May 2017

- Member of Bilingual Annotations Task (BATS) research group that focused on analyzing mixed language documents.
- Refactored Python code to improve maintainability.
- Increased the time to process large corpora significantly by using Python multiprocessing.
- Created visualizations and charts in R using ggplot.
- Edited and revised technical papers in LaTeX.

## Technical Skills

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**Languages:** R, Python, Java, JavaScript, HTML/CSS, C++, SQL

**Big Data Tools:** Hadoop, Spark, Hive

**Version Control:** Git, SVN

**Database Management Systems:** MySQL, Oracle, MongoDB

## Summary

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I am a current Master of Computer Science student at Rice University and a graduate of UT Austin. I am excited to apply my Mathematics and Computer Science background to data science, big data, and machine learning roles. Please visit my website to learn more about my background and projects I have worked on. Seeking an internship for summer 2020.