

Howard Wang

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Education

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

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, Samsung, Motorola, and Sony.
- *Main Tasks:* Developed an internal web application (using R Shiny) used to analyze silicon wafers in Apple's devices and help engineers visually monitor false holds/false releases based on wafer bin limits.
- *Results:* Streamlined and automated a challenging business problem.
- *Tools/Skills:* R, Python, C++, SQL, Oracle Database, Excel, Statistical Modeling.

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.
- *Main Tasks:* Fixed UI defects and worked on small features in SAS Visual Analytics and Visual Statistics. Presented poster of summer work at intern expo.
- *Results:* Improved user experience and fixed numerous high priority UI defects that significantly helped with release.
- *Tools/Skills:* JavaScript/TypeScript, HTML5, CSS, jQuery, OpenUI5, SQL, SAS, IntelliJ.

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.
- *Main Tasks:* Refactored and improved the performance of Python code. Created Visualizations using R.
- *Results:* Improved the time it takes to process large corpora by 10 to 15 percent.
- *Tools/Skills:* R, Python.

Technical Skills

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

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. I am passionate working on analytical software to help visualize and solve complex business problems. Please visit my website to learn more about my background and projects I have worked on.