Jeffrey Jiang

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Education

University of Texas at Austin **Austin, TX**
B.S. in Pure Mathematics and Computer Science, 2019 ***GPA:*** *3.98*
Graduated with Highest Honors

Academic Awards

Williams Scholar Honored Graduate
UT Austin *2019*
Awarded to the best students graduating with a mathematics degree.

Eva Woods Stevenson Unrestricted Endowed Presidential Scholarship
UT Austin *2018 - 2019*
Nominated by mathematics department to receive the merit-based scholarship, which is awarded to exceptional students in their given major.

College Scholar
UT Austin *2018*
Ranked in the top 20% of students in the College of Natural Sciences, with a cumulative GPA above 3.50

Distinguished College Scholar
UT Austin *2017, 2019*
Ranked in the top 4% of students in the College of Natural Sciences, with a cumulative GPA above 3.50

University Honors
UT Austin *2015 - 2019*
Awarded to students each semester who maintained a GPA above 3.50

Experience

Amazon Lab126 **Sunnyvale, CA**
Software Development Engineer Intern, Alexa Weather team. *May 2018 - August 2018*

- Integrated a new API into Alexa weather, which improved existing responses with the use of more precise and relevant forecast data.
- Provided technical input for voice and GUI responses to design teams, in addition to designing new responses for additional use cases.

University of Texas at Austin
Grader for Honors Discrete Math *Spring 2017, Spring 2018*

- Graded weekly homework and provided detailed feedback to students to improve their proof writing technique.
- Topics included graph theory, introductory abstract algebra, and introductory real analysis.

Directed Reading Program (DRP)
Student participant *Fall 2016, Spring 2017, Spring 2018 - Present*
A program that pairs undergraduates with graduate students to study a topic of mutual interest. Students were expected to attend weekly meetings with their mentor, do independent reading, and give a talk at the DRP Symposium at the end of the semester.

- Fall 2016 - studied classical algebraic geometry with Tom Oldfield, and gave a talk about projective varieties.
- Spring 2017 - studied commutative algebra with Tom Oldfield, and gave a talk regarding various universal properties.
- Spring 2018 - studied symplectic geometry with Arun Debray, and gave a talk introducing Kähler manifolds.
- Fall 2018 - studied cobordism with Arun Debray, and gave a talk concerning the Pontryagin-Thom

theorem.
- Spring 2019 - studied topological quantum field theories (TQFTs) with Arun Debray.

Student Organizations

UT Math Club
Member *Spring 2016 - Present*

- Attend weekly meetings, many of which have professors and graduate students explain topics close to their research.
- Gave a talk Spring 2018 introducing the Laplacian on a Riemannian manifold.
- Contributed an expository article to the inaugural undergraduate math journal motivating the construction of Clifford algebras and Spin groups.
- Gave a series of 5 lectures on differential geometry.

Mobile App Development Student Organization (MAD)
Android Teaching Assistant *Fall 2015 - Fall 2016*

- Designed curriculum for beginner Android workshops.
- Developed Android applications and created accompanying slides for instructional purposes.
- Assisted workshop attendees during weekly workshops.
- Gave lessons that walked attendees through the creation of a basic Android application from start to finish.

Conferences Attended

- January 2019 - Between Topology and Quantum Field Theory, UT Austin
- May 2019 - Differential Geometry, Calabi-Yau Theory and General Relativity, Harvard University

Other Skills

- Proficient in Java and Python.
- Intermediate knowledge of C, C++, JavaScript, Haskell, and Matlab.
- Experience with frontend development with React.
- Experience with Android app development.
- Experience with the TensorFlow package.
- Self taught in guitar - playing since November 2017.