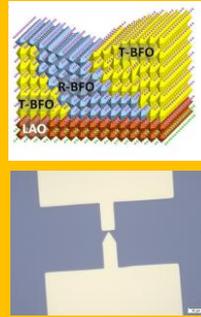


Research

During the summer of 2018, I completed the Xerox Research Engineering fellowship on campus with Prof. Stephen Wu. My focus was on modifying the nanostructure of Bismuth Ferrite to act as a platform to stretch Graphene. The latter is a material mainly used in developing semiconductor-based transistors, which are the main component needed to build any logic-based device such as artificially intelligent hardware. And that's how it's in relation to my chosen challenge.



Interdisciplinary

I have completed a program related to Reverse Engineering the brain the summer of 2019. The program, called The Undergraduate Research and AI Intern program with Microsoft Research in NYC, which included a 3-month project where I worked with 3 mentors to use machine learning tools to develop statistical language modelling techniques such as word embeddings. Using those tools, I studied the aspect of developing a platform to identify gender stereotypes on the sentence level in online text, like Wikipedia and search engine suggestions.

Innovation

I believe the same project I completed with Microsoft Research extracting gender bias from online text, also serves as an innovative project given its novelty in a lot of aspects the project discusses that have not been done before. We also hope to apply our results to Bing search engine completions to improve and neutralize bias based on past searches users have done, resulting in a product that wouldn't display a sentence completion suggestion of "stay at home" when you type in "Women should...", for example.

Global

I participated in the study abroad program with Hajim at the University of Sydney in Australia for the Fall of 2018. During the program, I studied computer engineering courses while discovering the beautiful city. Courses I have taken there, such as Python programming have easily contributed to my knowledge in Machine learning and in extension to Reverse Engineering the Brain.



Service

I was contacted by the events committee of Women and Minorities in Computing at the UofR last November, to participate in a public career speed networking event, which I was happy to do. I was assigned a table for research advising given my previous experiences and I contributed by answering questions and concerns on how to get involved in research, how to look for the right opportunities, what kind of work I did, how to turn an internship into a full-time offer for after graduation...etc.