

Tiera Lee

Research Associate

*National University of Singapore
Lew Kwan Yue School of Public Policy
469A Bukit Timah Rd, Tower Block Level 10
✉ tiera.lee@nus.edu.sg
🌐 tieralee.github.io*

Education

- Dec 2017 **B.S. Computer Science, with Honors** *Georgia Institute of Technology*
- Concentrations: Media, Modeling and Simulation
 - Relevant courses taken: Machine Learning, Intro. Information Visualization, Computer Audio, Computer Graphics, Computer Simulation

Research Interests

Human Computer Interaction, Human Robot Interaction, Computational Audio, Wearable Computing, Applied Machine Learning, Data Analytics, Data Visualization

Technical Skills

Languages Python, Java, C, SQL, R, JavaScript, D3, Processing, Beads Project, MATLAB, HTML5, CSS

Tools Jupyter Notebook, Scikit-Learn, Android Studio, Tableau, PATSTAT, Jira, GIT, Processing, Beads Project, Linux, Mac OS, Windows

Experience

- Mar 2018 **Research Associate**, *National University of Singapore, LKYSPP*
- to Present
- Advisor: You-Na Lee
 - Project: Creating indicators to measure innovation in intellectual property. I am applying data mining, analytics, and machine learning techniques to the project in order to create an index for design innovation.
- Feb 2016 **Undergraduate Research Assistant**, *Georgia Institute of Technology, School of Public Policy*
- to Dec 2017
- Advisor: John Walsh
 - Project: Investigated regional innovation of design patents in the United States. Developed skills in data analytics and data mining.
- May 2016 **Research Intern**, *Georgia Tech Research Institute*

- to Dec 2017
- Project 1: Contributed to the development of MEAN stack web application that will be used as a communication platform for Medicare precipitants, caregivers, managers, and family members. I performed mostly backend and database development.
 - Project 2: Developed 20 year economic forecast model to predict demand of construction materials across the US
 - Project 3: Created interactive data visualizations and dashboards for monitoring various price indices and determining outlier performance of subsidiary companies
 - Project 4: Applied machine learning algorithms to child welfare data in order to predict patient outcome

Aug 2016 **Undergraduate Research Assistant**, *Georgia Tech Research Institute, School of Civil and Environmental Engineering*

- to Dec 2017
- Advisor: James Tsai
 - Lead multidisciplinary research sub-team to develop smart-city infrastructure analysis toolkit
 - developed an efficient algorithm to provide quantitative analysis of pavement rutting Atlanta, Georgia, USA
 - Developed interactive GUI to determine mean texture depth of 3D pavement scans

May 2016 **Software Development Intern**, *Eaton Corporation, Lighting Division*

- to Aug 2016
- Developed, tested and internationalized code for hybrid-mobile application to configure commercial lighting
 - created users stories and mockups that drove development
 - accelerated development by 20%

Honors and Awards

- United States Fulbright Student Program Semi-finalist
- United States Benjamin A. Gilman International Scholarship Program Grant Recipient - \$4,000 USD
- Georgia Tech School of Materials Science General Scholarship Program Recipient
- Faculty Honors for 4.0 Semester
- Dean's List