# Amy Tan

amy.tan.su@gmail.com | GitHub | Website | Tableau

## EDUCATION

*University of Waterloo 2022*
Bachelor of Art, Honours Economics Econometric Specialization
*Computing Minor, Cognitive Science Minor*

## WORK EXPERIENCE

*Feb 2021 – Jun 2021*
Data Analyst | *DarkByte Research*

- Interpreted data collected from their app to calculate KPI and discover areas of improvement on their app
- Identified a potential threshold for app notifications to maximize user engagement
- Advised on methods of AB testing to test the findings
- *Software used: Tableau*

*Jan 2018 – Apr 2018*
Project Manager | *KGS Research Inc.*

- Managed a team of data collectors to ensure quotas were met for multiple projects
- Prepared spreadsheets of large data, utilizing various methods such as clusters to ensure better data collection
- *Software used: Microsoft Excel, Microsoft Outlook, QuickBooks*

## PROJECTS

### Random Music Generator:

This project works with complex structures and algorithms to guide the creation of music. This project uses hash tables to store music theory and other relevant data, classes to create music objects for use in the creation of intervals and notes, and dynamic programing to generate new beats. This project was first written in Python and then modified into JavaScript. The Python version can be found on my GitHub. (There are major changes in functionality between the two.)
*Languages used: JavaScript, HTML, CSS, Python*

### Math Arithmetic Game:

This simple arithmetic game utilizes hashes to store the different conditions and operations for each game level. The project works with user input and complex progress tracking systems.
*Language used: JavaScript, HTML, CSS*

### Modeling Rider Counts:

This project looks at daily bike ride data and applies the principal components method to identify clusters. Clusters identified include riders with no transportation (who are more likely to use a bike during colder temperatures), seasonal riders (those that use bikes during the school year but not the summer), and working riders (those who use the bikes to get to work or school and do not need the bike during the holidays).
*Language used: R*

### Top 10 Billboard Songs:

This relational database design project stores information on the Top 10 charted songs from 2006 to 2019. Attached is a user manual on how to use the database. The manual includes various useful queries and views.
*Software used: SQL*

## LANGUAGES/SOFTWARE

Python, R, SQL, JavaScript, HTML, CSS, Java, Tableau, Microsoft Office Suite, Adobe Create Cloud, Google Sheets