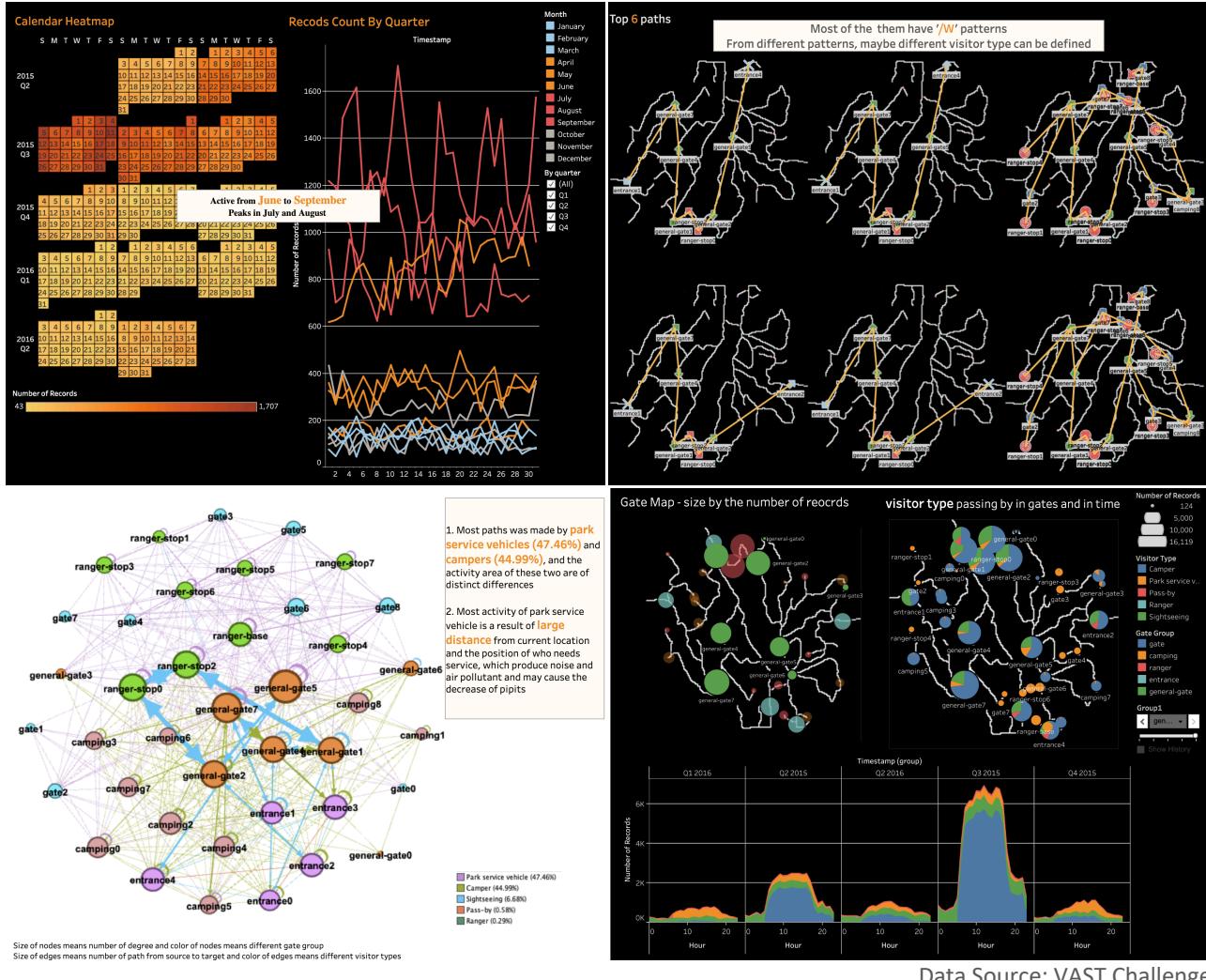


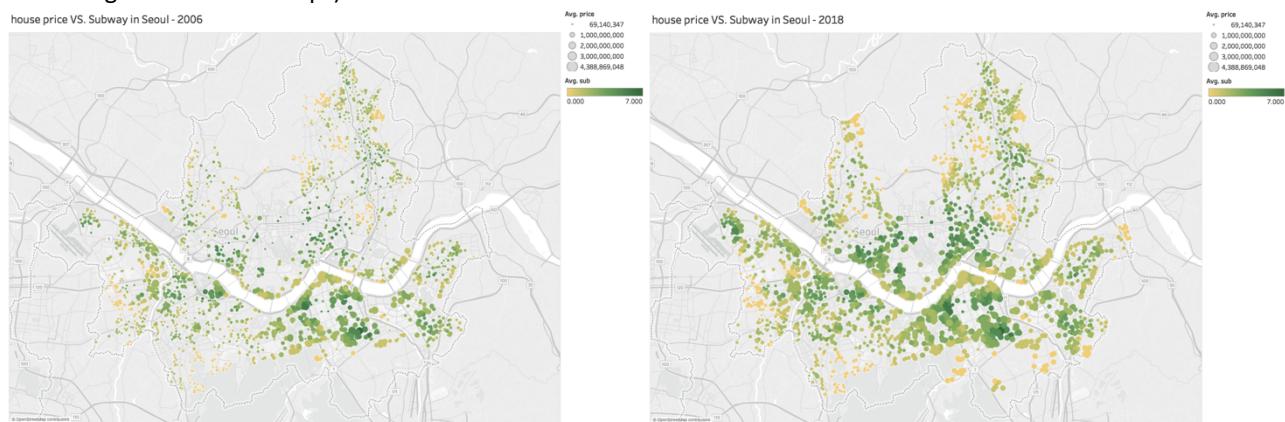
WORK DEMONSTRATION

1. Utilize visualization techniques to discover relation between downward bird population and human activities in national park (Tableau, Gephi)

Tableau Publish Workbook: <https://public.tableau.com/profile/mia7505#!/>



2. Housing Transaction Prices Prediction (Tableau - Discovered urbanization processes and pricing trends by visualizing factor relationships)



- Colored Region: Count of subway stations within 1 kilometer radius of the house
- Dot Size: House transaction prices

3. Study of Paper <StarGAN: Unified Generative Adversarial Networks for Multi-Domain Image-to-Image Translation>

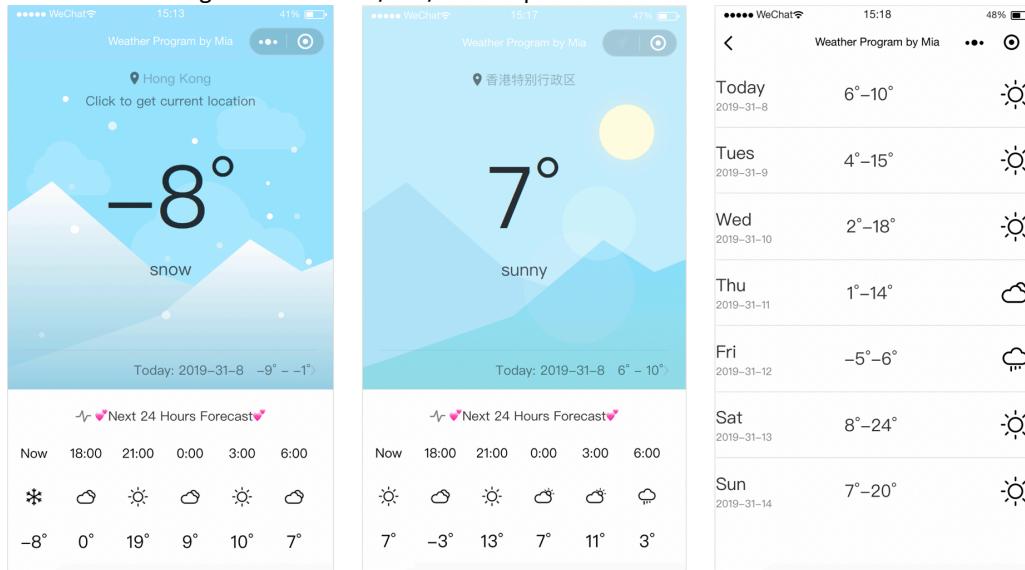
Collaborated with group of four to study StarGAN algorithm and preprocessed image data via face recognition toolkit, implemented StarGAN with TensorFlow to retouch images, such as facial attributes editing



Data Source: [RaFD Dataset](#), Self-defined Dataset

4. WeChat Mini-Program for Weather Forecasting (WeChat Developer Tool)

Developed WeChat Mini-Program with HTML/CSS/JavaScript for user to access real-time weather information



5. Optical Character Recognition (OCR) for Credit Card (Python OpenCV)

Redesigned OCR program with Python OpenCV to recognize various credit card number formats and contour



Detect Digit Number in Contour A and 4-4-4-4 Format



Detect Digit Number in Contour B and 3-6-5 Format