Eve (Zih-Yun) Yan

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Education

New York University Aug. 2019 - present
Graduate Student, Department of Psychology, Cognition & Perception Program *New York, NY*

Research focuus: Decision-Making, Mental health, Risk attitude, Longitudinal study

University of Pennsylvania Aug. 2019
Master of Behavioral and Decision Sciences *Philadelphia, PA*

- **Coursework**: Big Data Analytics, Modeling Choice Behavior, Probability, Neuroeconomics

National Taiwan University Jun. 2016
Bachelor of Arts in Political Science with minor in Psychology *Taipei, Taiwan*

- **Coursework**: Topics in Neuroeconomics, Psychoinformatics and Neuroinformatics, fMRI lab

Research Experience

The root of risk preferences, Glimcher Lab Jun. 2019 - present
PhD Student *New York, NY*

- Employed a smartphone-based set of daily instruments to longitudinally measure behavioral activities, mental health states, and risk and time preferences.
- Performed time-series regression analysis to capture dynamic variation in daily activities and the fluctuations in risk preferences .

Self-oriented or Other-oriented Altruism, Kable Lab Jan. 2019 - Aug. 2019
Capstone Project *Philadelphia, PA*

- Performed Multi-Voxel Pattern Analysis(MVPA) to map self-pain or other pain neural pattern in empathy brain network with helping behavior.

Meta-analysis of brain network associated with empathy, Kable Lab Sep. 2018 - Jan. 2019
Graduate Research Assistant *Philadelphia, PA*

- Identified the brain hub involved in empathy and mentalizing network for TMS targeting in fMRI experiment. Perform ALE-based coordinate meta-analysis across (a) empathy for pain and empathy for non-pain studies (b) empathy and theory of mind (ToM) fMRI studies.
- Validated the distinct neural networks of empathy and ToM from EmpaToM task by comparing the networks with fMRI meta-analysis results of empathy and ToM studies.

The impacts of sources and allocation of monetary reward on fairness perception Jul.2016 - Jul.2018
Research Associate *NCU, Taiwan*

- Programmed experiment and collected self-reported satisfaction on monetary distribution. Performed two-way ANOVA to examine the effect of two independent factors and regression analysis to quantify subjective aversion toward inequality.
- Collected fMRI data and analyzed data through parametric whole brain general linear model and ROI analysis to quantify activation in relation to the magnitude of reward in SPM.

Selected Projects

Traversing the graph data of Yelp community network, Upenn Sep. 2018 - Oct. 2018

- Implemented Breadth-First Search algorithm in graph data to generate restaurant recommendation by calculating the popularity from users' highly connected friends. Computed Pagerank to measure the network centrality with Spark and visualized friendship networks with Networkx.

Does using Facebook make you happier, NTU Nov. 2015 - Jan. 2016

- Designed a time-lag experiment to identify the causality between social media usage and the mood, collected self-reported data from self-developed APP in mobile device developed by APP Inventor.
- Analyzed both cross-section data and time-lag data of the relation of self-reported mood and time-specific activities (including social media usage) with one-way ANOVA and pair t-test.

Skills

- **Analytics Programming Tools**: MATLAB, Python, SPSS
- **Neuroimaging Tools**: Statistical Parametric Mapping(SPM), MATLAB, GingerALE, FSL
- **Big Data Tools**: Python (Pandas, Numpy, Scipy, Sklearn), SQL, Spark