Hau-Hung Yang

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PERSONAL PROFILE

Highly motivated M.S. student in Psychology with expertise in Statistics and Quantitative Psychology. Research assistant with 3 years of experiences analyzing behavior and fMRI data. Overall GPA 4.12 in undergraduate. Seeking new models for ordinal scale data and appropriate hypothesis testing procedures for ordered restrictive inferences.

EDUCATION

2020-present M.S. in Psychology, National Taiwan University, Taipei, Taiwan
Last year GPA: 4.18
Relevant courses:
Advanced Statistical Inference (GPA: 4.3, Department of Mathematics), Experimental Design (GPA: 4.3), Introduction to Stochastic Modeling (GPA: 4.3)

2016-2020 B.S. in Psychology, National Taiwan University, Taipei, Taiwan
Overall GPA: 4.12
Awards: ranked 3rd in sixth semester

RESEARCH EXPERIENCE

Research Assistant

2020-Present Project: Analysis of Cognitive Structures Underlying Financial Behavior
Department of Psychology, National Taiwan University

- Search and review related literature and collected questionnaire of bias in financial behaviors
- Use exploratory factor analysis to find the latent structure behind variance covariance matrix of financial bias questionnaire
- Make statistical inferences and interpretations of the latent variables of financial bias

RESEARCH EXPERIENCE (CONTINUED)

2018-2020 Project: From Mind Reading to Mind Sharing: A Study on Neural Correlates of Cognitive and Affective Theory of Mind and Their Applications to Salesforce Enhancement

Department of International Business, National Taiwan University

- Taught new team members preprocessing and analysis of behavior data
- Mentored new team members in preprocessing and statistical analysis of neuroimaging data
- Reviewed and reported related literature and journal articles, including synchronization, structural equation modeling, and theory of mind

2017-2020 Project: Coalition without Trust: The Intra-Brain Connectivity and Inter-Brain Synchronization of Herd Behaviors in an Economic Bubble Game

Department of International Business, National Taiwan University

- Explored the possible mechanism behind behavior for the use of visualization of data and descriptive statistics
- Constructed probability models and appropriate hypothesis tests to make statistical inferences for the economic bubble game
- Preprocessed the fMRI data and construct a model to explain brain activity based on behavior data
- Mentored new team members in preprocessing and statistical analysis of neuroimaging data
- Taught new team members preprocessing and analysis of behavior data
- Reviewed and reported related literature and journal articles, including diffusion model, reinforcement learning, prospect theory, and behavioral economics

RESEARCH INTERESTS

- Use drift diffusion model and related sequential sampling models for choice behavior
- Incorporate response confidence (or response time) into the stochastic approximation algorithm to gain more efficient estimation of threshold in psychophysical experiments
- Decision making and preferences in behavioral economics

TEACHING EXPERIENCE

2020-2021 Teaching Assistant, Statistics in Psychology and Education

Department of Psychology, National Taiwan University

- Created and graded course assignments, including R programming practice and statistical inferences
- Graded midterm and final exam
- Taught R programming in hand-on course sections

2019-2020 Teaching Assistant, Statistics in Psychology and Education

Department of Psychology, National Taiwan University

- Created and graded course assignments, including R programming practice and statistical inferences
- Created and graded midterm and final exam
- Taught R programming in hand-on course sections