

# Tommy Kan

Contact: (615) 602-7857   tommykan97@gmail.com  
2006 Broadway Nashville TN 37203

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## EDUCATION

**MASTER OF EDUCATION**, Quantitative Methods, Expected graduation: May 2023

Vanderbilt University Peabody College, Nashville, TN

**BACHELOR OF ARTS, PSYCHOLOGY**, GPA 3.81 with High Honor and distinction in major

University of California Santa Barbara, Santa Barbara, CA

August 2017 – May 2020

**BACHELOR OF ARTS, MUSIC STUDIES**, GPA 3.81 with High Honor

University of California Santa Barbara, Santa Barbara, CA

August 2017 – May 2020

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## DATA ANALYSIS & RESEARCH EXPERIENCES

### Graduate Assistant

October 2022– Current

Vanderbilt Office of Data and Strategic Analytics

Nashville, TN

- Investigate the career outcome of undergraduate and graduate students and update the REDCap database.
- Grading students' work on human centered designs.
- Creating tableau presentations for data on program rankings across the US.

### FMRI Analysis Intern

January 2022– Current

Vanderbilt Peabody College

- Implemented time series correction, skull stripping and movement correction to images to ensure data validity.
- Converted DICOM data to BIDS format for statistical analysis.
- Scripting and optimizing an "Leave one out" cross validation package for brain connectivity models on R.

### Quantitative Research Intern

September 2022– Current

Princeton Intelligent Performance and Adaptation Laboratory

Princeton, NJ

- Investigate the psychological distance between finger movements.
- Provide statistical consultation on Multidimensional Scaling, such as IDIOSCAL, INDISCAL and interpretation of MDS weight matrices.
- Review and select psychological measures for on-going studies.

### Lab Manager

January 2018 – Jan 2020

University of California Santa Barbara Music Cognition Lab

Goleta, CA

- Investigated effect of music timbre, harmonic structure, music topic, etc. on listener's music meaning perception.
- Investigated participants' mode of listening (Analytical vs Associational) when different contexts are provided (Film music vs Western Arts Music) via Chi-Square analysis
- Scheduled lab members' timetable for running participants
- Trained new research assistants on SPSS

### Research Assistant

September 2021– Current

Cole Laboratory

Nashville, TN

- Propose a novel method of conducting and presenting power analysis for complex statistical models such as Cross-Lagged Panel Model.
- Simulate effect of missingness and collinearity on the power of the regression weight of interest.
- Adapted Monte Carlo simulation on regression model, mediation model, and CLPM from Mplus to R.

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## COMPUTER AND LANGUAGE SKILLS

### Research and Analysis Software

- Python, SPSS, Excel, Qualtrics, R Studio, SAS, Tableau
- Github: <https://github.com/GladTeer?tab=repositories>

### Language

- Fluent in Mandarin and Cantonese. Proficient in Chinese writing