

# WINNIE WING-YEE TSE

## EDUCATION

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|----------------------|--|--|
| 2019<br> <br>Current | <ul style="list-style-type: none"><li>● <b>Ph.D. in Quantitative Psychology</b><br/>University of Southern California (USC)<ul style="list-style-type: none"><li>• Advisor: Hok Chio (Mark) Lai</li></ul></li></ul>                                    | <span style="color: #333399;">📍</span> Los Angeles, CA |
| 2015<br> <br>2018    | <ul style="list-style-type: none"><li>● <b>B.A. in Psychology</b><br/>University of British Columbia (UBC)<ul style="list-style-type: none"><li>• Advisor: Victoria Savalei</li><li>• Graduate Student Advisor: Cathy Xijuan Zhang</li></ul></li></ul> | <span style="color: #333399;">📍</span> Vancouver, BC   |



## AWARDS & FELLOWSHIPS

- |      |  |  |
|------|--|--|
| 2018 | <ul style="list-style-type: none"><li>● <b>Natural Sciences and Engineering Research Council of Canada (NSERC)</b><br/>University of British Columbia<ul style="list-style-type: none"><li>• Summer Undergraduate Student Research Awards (USRA)</li><li>• CAD 12900</li></ul></li></ul> | <span style="color: #333399;">📍</span> Vancouver, BC |
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## CURRENT RESEARCH PROJECTS

- **Measurement Invariance with Ordered-Categorical Variables**  
Examining situations when strict factorial invariance is necessary for mean comparisons
- **Bayesian-Classical Hybrid Approach for Optimal Design in Multilevel Randomized Trials**  
Developing an approach that incorporates the uncertainty around design parameters when determining multilevel sample sizes

## PUBLICATIONS

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| 2019 | <ul style="list-style-type: none"><li>● <b>Improved properties of the Big Five Inventory and the Rosenberg Self-Esteem Scale in the Expanded format relative to the Likert Format</b><br/>Frontiers in Psychology<ul style="list-style-type: none"><li>• Authors: Zhang, X., Tse, WW-Y., &amp; Savalei, V.</li><li>• 10:1286, 11 pages</li><li>• <a href="https://doi.org/10.3389/fpsyg.2019.01286">https://doi.org/10.3389/fpsyg.2019.01286</a></li></ul></li></ul> |
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## CONTACT INFO

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- ⌚ [winniewytse](https://www.winniewytse.com)
- 🌐 OSF: [winniewytse](https://osf.io/winniewytse/)

## COMPUTER SKILLS

- Statistics: R, SPSS
- SEM: Mplus, R
- Multilevel: R (`lme4`, `brms`)
- Document preparation:  
LaTeX, RMarkdown, MS Powerpoint, Excel, Word
- Frontend: HTML, CSS

This CV is made using [pagedown](#)  
and last modified on 2021-02-20.

## CONFERENCE PRESENTATIONS

2020,  
July 14-  
17

- **Measurement Invariance for Ordered Categorical Variables: The Necessity of Strict Invariance for Valid Group Comparisons**  
Annual Meeting of the Psychometric Society (IMPS) [Poster Session]  
 College Park, MD
  - Presentors: **Tse, WW-Y.** & Lai, M. H. C.
  - [Schedule](#)

2020,  
June 25-  
26

- **Measurement Invariance for Ordered Categorical Variables: The Necessity of Strict Invariance for Valid Group Comparisons**  
A Meeting of Methodologies (AMOM) [Conference Session]  
 Vancouver, BC
  - Presentors: **Tse, WW-Y.** & Lai, M. H. C.
  - [Powerpoint slides](#)

2020,  
June 2-3

- **Path to valid means comparisons: The necessity of strict measurement invariance for ordered categorical variables**  
Modern Modeling Methods Conference (MMM) [Poster Session]  
 Storrs, CT
  - Presentors: **Tse, WW-Y.** & Lai, M. H. C.
  - Conference canceled due to Covid-19

2017,  
April 1-2

- **Examining the Order Effects in Psychological Scales in the Expanded Format**  
Psychology Undergraduate Research Conference, UBC  Vancouver, BC
  - Presentors: **Tse, WW-Y.**, Zhang, X., & Savalei, V.

## RESEARCH EXPERIENCE

2020  
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Current

- **Graduate Research Assistant**  
MMM Lab   
  - Principal Investigator: Hok Chio (Mark) Lai
  - Project on the Alignment Methods Adjusting for Measurement Noninvariance

2016  
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2019

- **Undergraduate Research Assistant**  
SEM Lab   
  - Principal Investigator: Victoria Savalei
  - Project on Order Effects in the Expanded Format Scales (Cathy Zhang)
  - Project on Bayes Factor under Different Priors (Bill Chen)

2017  
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2019

- **Undergraduate Research Assistant**  
Social Accuracy Lab   
  - Principal Investigator: Jeremy Biesanz
  - Project on the Effects of Researchers' Degrees of Freedom on Effect Sizes

2017  
|  
2019

- **Undergraduate Research Assistant**  
Department of Social Work   
  - Principal Investigator: Miu Chung Yan
  - Project on Immigration, Integration, and Social Transformation in the Pacific Rim

- 2016 | 2017
- **Undergraduate Research Assistant**  
Cultural and Self Lab
    - Principal Investigator: Steve Heine
    - Projects on Meaning Maintenance (Rachele Benjamin)
    - Project on Social Inequality (Anita Schmalor)
- 📍 UBC

## 💻 TEACHING EXPERIENCE

- 2019
- **Statistics (PSYC 274)**  
📍 USC

## 📊 STATISTICAL TRAINING

- 2020
- **Applied Machine Learning (PSYC 625)**  
📍 USC
    - Instructor: Morteza Dehghani
  - **Multilevel Modeling**  
📍 USC
    - Instructor: Hok Chio (Mark) Lai
  - **Classic and Modern Statistical Methods II (PSYC 502)**  
📍 USC
    - Instructor: Rand Wilcox
  - **Research Design**  
📍 USC
    - Instructor: Christopher Beam
  - **Bayesian Data Analysis (PSYC 621)**  
📍 USC
    - Instructor: Hok Chio (Mark) Lai
  - **Classic and Modern Statistical Methods I (PSYC 501L)**  
📍 USC
    - Instructor: Rand Wilcox
  - **Applied Multiple Regression (PSYC 546E)**  
📍 UBC
    - Instructor: Jeremy Biesanz
  - **Exploratory Data Analysis (STAT 545A)**  
📍 UBC
    - Instructor: Vincenzo Coia

## 📝 PROFESSIONAL SERVICES

- **Ad Hoc Journal Reviewer**
  - Asian American Journal of Psychology
  - Alcohol and Alcoholism