

# Jingying Wang, PhD

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[Google Scholar](#) | [LinkedIn](#)

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## Professional Summary

PhD-trained behavioral scientist with over 5 years of postdoctoral research experience in computational psychology and clinical data analysis. Extensive experience in statistical modeling, multi-modal data analysis, and machine learning applied to neuropsychiatric disorders. Author of 29 peer-reviewed publications with 622 citations. Skilled in mixed-effects modeling, regression analysis, meta-analysis, and Python-based statistical computing. Experienced collaborator in interdisciplinary clinical research and grant development.

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## Research Areas

Computational Psychology · Mental Disorders · Behavioral Data Science · Brain Stimulation · Clinical Data Analysis

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## Statistical Methods

- Linear and non-linear regression
  - Mixed-effects models
  - Multivariate analysis (MANOVA, canonical correlation)
  - Structural equation modeling
  - Meta-analysis and meta-regression
  - Dimensionality reduction, classification, and clustering
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## Programming & Statistical Software

- Python (NumPy, Pandas, scikit-learn, Matplotlib)
- SPSS, Stata, JASP

- Basic familiarity with SQL
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## **Data Analysis & Visualization**

- Neuropsychiatric clinical data analysis
  - Neuroimaging and behavioral data analysis
  - Data visualization with Matplotlib and Seaborn
  - Tableau (basic familiarity)
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## **Research Experience**

### **Postdoctoral Associate**

**University of Florida** | Jul 2022 – Jul 2024

- Conducted statistical analyses on multimodal clinical datasets including demographics, diagnosis outcomes, MRI imaging, gait data, and cognitive assessments.
- Applied mixed-effects models and multivariate analyses to investigate aging-related changes in autistic adults.
- Preprocessed and processed complex neuroimaging and motion capture datasets.
- Co-authored peer-reviewed publications and contributed to external grant proposal development.
- Mentored undergraduate and graduate students in research methods and statistical analysis.
- Collaborated with interdisciplinary clinical research teams to analyze behavioral and neuroimaging datasets.

### **Research Consultant**

**Fudan University** | Feb 2022 – May 2022

- Led development of a mobile application to study and improve parent-child relationships.
- Designed study protocols and performed statistical analyses on behavioral datasets.

### **Postdoctoral Fellow**

**Hong Kong Polytechnic University** | Dec 2020 – Dec 2021

- Investigated visual impairments using visual evoked potentials and non-invasive brain stimulation techniques (tDCS, tACS).
- Conducted statistical analyses on electrophysiological datasets.

- Drafted ethics applications and project reports for funded research projects.
- Established international research collaborations resulting in peer-reviewed publications.
- Awarded Postdoctoral Matching Fund Scheme.

## **Postdoctoral Fellow**

**Fudan University** | Mar 2018 – Nov 2020

- Quantified Parkinson's disease gait impairment using wearable sensor data.
  - Evaluated effects of transcranial electrical stimulation on motor symptoms.
  - Applied statistical modeling and machine learning techniques to movement datasets.
  - Wrote proposals for external fundings and mentored junior lab members.
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## **Education**

### **PhD, Applied Psychology**

University of Chinese Academy of Sciences, China — 2017

### **MSc, Positive Psychology**

Nanchang University, China — 2014

### **BSc, Psychology**

Jiangnan University, China — 2009

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## **Professional Service**

- Guest Associate Editor, *Frontiers in Psychiatry* (Special Issue: Women in Psychiatry 2023)
  - Peer reviewer for 30+ manuscripts across journals including *General Psychiatry*, *JMIR*, *JMIR Mental Health*, *Frontiers in Aging Neuroscience*, etc.
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## **Grant & Research Administration Experience**

- Contributed to preparation of external research grant proposals.
  - Assisted with progress reports and research documentation for funded projects.
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## Selected Publications

1. Danielle C., Shin Y., Wang J. et al. (2025). Subcortical brain volume variations in autistic individuals across the lifespan. *Molecular Autism*, 16(1), 46.
2. Wang J. et al. (2024). Cognitive and brain morphological deviations in middle-to-old aged autistic adults: A systematic review and meta-analysis. *Neuroscience & Biobehavioral Reviews*, 105782.
3. Wang J. et al. (2024). The effect of montages of transcranial alternating current stimulation on occipital responses. *Frontiers in Psychiatry*, 14, 1273044.
4. Wang J. et al. (2024). Identifying stress scores from gait biometrics captured using a camera. *Gait & Posture*, 109, 15-21.
5. Wang J. et al. (2021). Is Transcranial Direct Current Stimulation effective in treating major depressive disorder? *BMC Medicine*, 19(1), 1-14.

Full publication list available via Google Scholar (link above).

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## Career Interruption

### Aug 2024 – Present

Relocated due to spouse's employment; continuing research activities, manuscript preparation, and professional development in statistical programming and data analysis.