

# Yiming Qian

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## EDUCATION

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- 2018-2023 Pennsylvania State University, PA, USA  
(expected) **PhD---Psychology**
- 2015-2017 Indiana University-Bloomington, IN, USA  
**M.S.ED---Learning & Developmental Science (Educational Psychology track)**
- 2011-2015 Fudan University, Shanghai, China  
**B.S--- Psychology**  
Thesis: Psychometric assessment of Coparenting Scale and its Relationship with Children's Developmental outcomes in Context of Chinese Families  
**Bachelor's degree in Management---Accounting**  
Thesis: Investor Sentiment, Firm Characteristics, and Stock Returns in China

## Honors and Awards

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- 2018 **Robert and Ruth Faris Child Psychology Award**
- 2018 **Graduate Scholar Award**
- 2015 **The 3rd Prize of the Scholarship for outstanding students in Fudan University**

## SCHOLARSHIP

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### PUBLICATIONS

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Wang Y., **Qian. Y.**, Li, H., Wang, S., Chen, B. (2018). A study on the traditional Chinese family coparenting behaviors: red face and white face. *Journal of Soochow University (Educational Science Edition)*,6(01):100-111.

**Qian, Y.** (2015). A survey of picture books for children younger than 2 years of age in China. *Popular Psychology (China)*, 22(7), 31-32.

### Manuscripts under review

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Avesani, P., McPherson, B., Hayashi, S., Caiafa, C., Henschel, R., Garyfallidis, E., Sporns, O., Saykin, A., Wang, L., Dinov, I., Hancock, D., Caron, B., **Qian., Y.**, & Pestilli, F. (2018). The open

diffusion data derivatives, brain data upcycling via integrated publishing of derivatives and reproducible open cloud services.

### **Manuscripts in Preparation**

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Gilmore, R. O. & **Qian, Y.** (in preparation). Developmental Changes of Sensitivity to Optic Flow from Childhood to Adulthood

### **PRESENTATION**

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+Co-first authors

Lorah, J. A., **Qian, Y.**, Demattee, A., & Lau, P. (2019, April). Type I error and power rates for discrete multilevel survival models with varying sample size. Paper to be presented at American Educational Research Association (AERA) Annual Meeting, Toronto, Canada.

**Qian, Y.** (2018, May). The Effect of Accuracy-Response Time on Capacity using Accuracy-Response Time Capacity Assessment Function. 2018 Midwest Cognitive Science Conference, Bloomington, IN, USA.

Sadak, M. +, **Qian, Y.**+ (2017, Nov). The Effect of Student, Teacher, and School Characteristics on Student Mathematics Achievement in Turkey: a Hierarchical Linear Modeling of TIMSS 2015. ICERI2017, Seville, Spain.

### **TRANSLATION**

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Gerhardt, S. a. (2014). Why love matters: how affection shapes a baby's brain. London: Routledge.

Howard, R. D., McLaughlin, G. W., & Knight, W. E. (2012). *The Handbook of Institutional Research* (pp.523-550). San Francisco, CA: Jossey-Bass.

### **RESEARCH EXPERIENCE**

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2018-Present **Department of Psychology, PSU, PA, USA**

**Graduate Student Research Assistant, Gilmore Lab**

- The development of visual perception of motion from infancy to adulthood

**Graduate Student Research Assistant, Lab of Developmental Neuroscience**

- The brain activations underlying the development of face perception from adolescence to adulthood

2017-2018 **Department of Psychological & Brain Sciences, IUB, IN, USA**

**Research Assistant, Pestilli Lab**

- Contrasted tract profiles among subjects with different risk level of Alzheimer's Disease by using AFQ, and try to find biomarkers for early detection of Alzheimer's Disease

- Preprocessing NKI/RS dataset and using this dataset to validate the tractography algorithms in [brain-life](#)
- 2017-2018      **Research Assistant, Townsend Lab**
- Mathematical psychology
  - Conducting the experiments to test the tradeoff between accuracy and reaction time
- 2016      **Research Assistant, Ken Mackie's Lab**
- Cell culture, Brain dissection, Brain slice, retina dissection, IHC & Western blot
  - The mechanisms of endogenous cannabinoid signaling system on the hippocampus and ocular system
- 2014 –2015      **Department of Psychology, Fudan University, SH, CHINA**  
**Research Assistant, WANG Yan's Lab**
- Literature review, data analysis & paper writing on project "Grand-parenting and parenting in China based on Life History Theory and Parental Investment Theory"
- 2013 –2015      **Research Assistant, CHEN Binbin's Lab**
- Data collection on Longitudinal research "Parenting Across Cultures" (questionnaire) and "Cross-National Decision-Making of Children in Everyday Life" (experiments)
  - Designed and conducted an experiment "Sweet taste embodiment of mating motivation" programmed by E-Prime
- 2013 -2014      **Research Assistant, LI Xiaoru's Lab**
- Data analysis on project "Investigating the mental health of the Children from Rural Migrant Workers' Family in Jiangyin City, China"
- 2011 -2013      **Association of Investigation & Survey, Fudan University, SH, CHINA**
- Conducted surveys and interviews on social & academic issues and wrote articles on the journal of Fudan University

## **Teaching Experience**

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- 2018      PSYCH 101: Introductory Psychology (TA)
- 2019      PSYCH 260/BBH 203: Neurology of Human Behaviors (TA)
- 2019      PSYCH 423: Personal and Group Relationships

## **INTERNSHIP**

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- 2017-present      **Campus View Child Care Center, Bloomington, IN, USA**
- Taken care of toddlers

- 2016 **Rooftop Garden, Middle Way House, Bloomington, IN, USA**  
 ➤ Taught children in National Domestic Violence Model program about gardening and environmental sustainability
- 2013-2014 **Psychology Association, Fudan University, Shanghai, CHINA**  
 ➤ Trained the psychological commissaries how to provide proper interventions and supports to the students with mental disorders  
 ➤ Advocated the mental health week by organizing games and activities  
 ➤ Assisted routine operation for clinical psychologists and counselors in the association
- 2013 **Wenpeng Education Center, Shanghai, CHINA**  
 ➤ Taught courses about emotional intelligence

## **VOLUNTEER AND OUTREACH**

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- 2018 **2018 Midwest Cognitive Science Conference, Bloomington, IN, USA.**  
 Coordinator: Prepared for & organized the conference
- 2017 **13<sup>th</sup> Annual international Furniture Give-Away, IUB, IN, USA**  
 Volunteer: volunteer check-in, Bonus Bag Team lead
- 2017 **2017 IST Conference, IUB, IN, USA**  
 Facilitator: Prepared for & organized the conference
- 2016 **CANLab, IUB, IN, USA**  
 RA: Conducted the Child Scientist Activity Week camp in summer
- 2016 **Nosofsky's Lab, IUB, IN, USA**  
 RA: Joined lab meetings
- 2016 **Indiana University's 21<sup>st</sup> Preparing for Future Faculty Conference, IUB, IN, USA**  
 Facilitator: Prepared for the conference, guest check-in, & organized one roundtable
- 2015 **Child Daycare Program, Middle Way House, Bloomington, IN, USA**  
 Volunteer: Took care of children under 6 years old
- 2014-2015 **Mental Health Campaigns, Fudan University, Shanghai, China**  
 Advocator: Organized a series of workshops on depression and anger control, and designed leaflets
- 2013-2015 **Xinhua Arts Center, Shanghai, China**  
 Teaching assistant: Taught the fine arts lessons

## **Professional Experience and Services**

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### **Professional Organizations:**

- 2018- Vice President, the Academic Experimental Organization for Neuroscience Students (AXONS)

2018- Member, Vision Sciences Society

## **PROGRAMMING AND SOFTWARE EXPERIENCE**

**Programming and Statistic Software:** R, IBM SPSS, IBM AMOS, E-PRIME, Brainvoyager, MATLAB, Python, FreeSurfer, Diffusion Imaging in Python (Dipy), FSL, PsychoPy, EEGLab, ERPLab

**Statistical Analyses:** Univariate analysis, Correlation Analysis, Linear Regression, GLM, Logistic Regression, Multilevel modeling, Mathematical Modeling in Psychology (Signal Detection Theory, Similarity Choice Model, Systems factorial technology, General Recognition Theory), Multivariate Techniques (Exploratory Factor Analysis, Structural Equation Modeling, MANOVA, Multidimensional Scaling, Cluster Analysis), Psychometric Analysis (CCT, IRT, Confirmatory Factor Analysis), Simulation Study

**Programming:** Machine Learning, Data Analytics