

# Ziyang Liu

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## EDUCATION

### University of Arizona

Ph.D. in Statistics

Tucson, AZ

Aug 2021 - Now

- GPA: 4.0/4.0
- Teaching Assistant at the Department of Mathematics
- Research Assistant at the College of Pharmacy

### University of Pennsylvania

M.S. in Statistics, Measurement and Research (Quantitative Methods)

Philadelphia, PA

Aug 2019 - Dec 2020

- GPA: 4.0/4.0
- Awards: Merit Scholarship
- Research Assistant at Penn Center for Learning Analytics

### Beijing University of Technology

B.E. in Civil Engineering

Beijing, China

Sept 2015 - Jun 2019

- GPA: 3.91/4.0
- Awards & Honors: Academic Scholarship (Top 10%), Recipient for special academic funding

### The Hong Kong Polytechnic University

Student Exchange Program

Hong Kong, China

Sept 2018 - Dec 2018

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## PUBLICATION

1. Karumbaiah, S., Baker, R., Tao, Y., and **Liu, Z.** How does students' affect in virtual learning relate to their outcomes? A systematic review challenging the positive-negative dichotomy. *In LAK22: 12th International Learning Analytics and Knowledge Conference* pp. 24-33.
  2. Scruggs, R., Baker, R. S., Pavlik, P. I., McLaren, B. M., & **Liu, Z.** (2023). How well do contemporary knowledge tracing algorithms predict the knowledge carried out of a digital learning game? *Educational technology research and development*, 1-18.
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## MANUSCRIPTS SUBMITTED

1. Karumbaiah, S., Baker, R.S., Tao, Y., and **Liu, Z.** A Meta-Analysis and Synthesis Challenging the Positive-Negative Dichotomy in Affect-Outcome Relationships.
  2. **Liu, Z.**, Sun, X., Ding, H. ssde: an R Package for Single Sample Differential Gene Expression Analysis.
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## TEACHING EXPERIENCE

*University of Arizona*

MATH 112 College Algebra, Fall 2021 (Instructor & Teaching Assistant)

MATH 263 Introduction to Statistics and Biostatistics, Spring 2022 (Teaching Assistant)

MATH 466 Theory of Statistics, Spring 2022 (Teaching Assistant)

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## ACADEMIC EXPERIENCE

### Penn Center for Learning Analytics

Research Assistant (Supervisor: Ryan S. Baker, Ph.D.)

Philadelphia, PA

May 2020 - Apr 2021

### University of Arizona

Research Associate (Supervisor: Hongxu Ding, Ph.D. and Ning Hao, Ph.D.)

Tucson, AZ

Jan 2022 - Now

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**INDUSTRY EXPERIENCE**

**Verif-y Inc.**  
Data Analyst

Philadelphia, PA  
Jan - May 2020

**UBiAi Technology**  
Data Analyst

Beijing, China  
Jul 2018 - Aug 2018

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**SERVICE**

**Arizona Alpha Chapter of Mu Sigma Rho**  
Member

2023-Now

**American Statistical Association (ASA) DataFest**  
Mentor

May 2023

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**OTHERS**

- Languages: Mandarin, English, Japanese