





# Tricia Guerrero

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I am an education researcher with 15+ years of experience in public education supporting student success and 8+ years of experience conducting qualitative and quantitative research with educational technologies to support student learning. I have expertise in comprehension and learning as well as instructional interventions to support learning for underserved student populations.

## SELECTED EXPERIENCE

### University of Illinois at Chicago

August 2017 – June 2023

#### *Education Researcher*

- Executed behavioral experiments to understand how students comprehend, reason, and apply knowledge within a web-based intelligent tutoring system resulting in the publication of 10 peer-reviewed journal articles and 2 book chapters
- Collect, analyze, and build models from experimental data with a special focus on interventions for at-risk, underserved, and neurodivergent students resulting in 40+ scientific presentations at national and international venues
- Conducted moderated user interviews (online and in-person) to assess user behaviors and analyze user flow, ultimately leading to the inclusion of a new feature that enhanced the adaptivity of the web-based educational technology for neurodivergent populations and increased grades of at-risk students by 10%

#### *Honors College Instructor / Psychology Teaching Assistant*

- Develop and lead lectures for up to 100 undergraduate psychology students in research methods, statistics, memory and cognition, and a newly developed honors course on text comprehension and reasoning with 4.9/5 overall student evaluation score across 10 semesters
- Provided comprehensive support at every stage for up to 25 student research projects, effectively guiding and facilitating successful project completion for junior researchers in undergraduate laboratory research course

### Arizona State University

March 2015 – July 2017

#### *Educational Research Specialist*

- Achieved significant improvements to the user interface of a web-based tutoring system through comprehensive testing (user interviews, wireframing, MVP usability test, A/B test) and analyzing user behavioral outcomes and log data to obtain data-driven insights that effectively enhance the responsiveness and adaptivity of the system, resulting in an enhanced overall user experience
- Successfully managed end-to-end recruitment and data collection efforts of children by collaborating with administrators from 10 school districts, ensuring the timely completion of the project while maintaining a high standard of data quality

### East Valley Institute of Technology

March 2008 – May 2015

#### *Director of Culinary Arts & Special Projects Leader*

- Led training and development of over 200 students in K12 environment achieving 92% post-graduation placement rates over 5-year period
- Directed school leadership support team resulting in increased student enrollment by 21% by designing school-wide extracurricular program
- Designed nationally accredited American Culinary Federation Education Curriculum which led to a reduced education cost of \$65 per student and led to consistently obtaining #1 Culinary CTE scores in the state

### Scottsdale Community College

August 2008 – May 2015

#### *Advisory Board Member*

- Advised on course development, degree completion requirements, and job training and placement in accordance with higher education policies

## EDUCATION

Ph.D., Psychology, UIC

M.A., Psychology, UIC

B.S., Psychology, ASU

## TOOLS

R

SPSS

Python

Qualtrics

Tableau

Microsoft Office

- Excel, Word, PowerPoint

Google Suite

## RESEARCH SKILLS

Qualitative Research Methods

- User Interviews
- Focus Groups
- Usability Testing

Quantitative Research Methods

- Survey Design
- A/B testing

Data Analysis & Visualization

- Multi-level modeling
- Regression
- ANOVA
- Factor Analysis
- Data Science/ Machine Learning Methodology

Natural Language Processing

Writing Research Summaries

Presenting Research Findings

## RESEARCH ACHIEVEMENTS

12 publications

42 conference presentations

\$200k+ in research grants

24 undergraduate mentees

10 courses taught

## SELECTED AWARDS

National Science Foundation

Graduate Research Fellow

UIC Access to Excellence Fellow