

TRAN HOANG

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EDUCATION:

Learning Design and Technology
Stanford University

September 2021 - Present

Psychology & Social Behavior/ Education Sciences
University of California, Irvine

September 2016 - June 2019

RESEARCH EXPERIENCE:

Media and Child Development Lab, Lab Manager and Research Assistant

April 2016 – Present

Mentors: Professors Mark Warschauer and Professor Drew Bailey; Dr. Robert Kalinowski; Postdoctoral Scholar Ying Xu

University of California, Irvine

Automated Conversational Agent for Dialogic Storybook Reading

February 2021 – Present

- Assisted in creating over 10,000 question-answer pairs for labelled dataset used to train the conversational agent.
- Collaborated with members from IBM Research to build the automated conversational agent.
- Developed framework for question-answer pairs and benchmark dataset of dialogic questioning to build children's narrative comprehension skills.
- Project funded by Schmidt Futures.

Young Children's Learning with Conversational Agents

September 2018 – June 2019

- Transcribed and analyzed interviews with 31 children to understand their perception of conversational agents.
- Assisted in editing a conversational storytelling script to implement in the Google Home by reviewing reading comprehension questions with the research team.
- Administered exams to preschool children for the Expressive One-Word Picture Vocabulary Test.

Toddlers and Taps: a Multi-Case Study of Young Children's Use of YouTube

Fall 2018 – June 2019

- Assisted in collecting and analyzing qualitative and quantitative data from children's use of digital technologies
- Attended weekly meetings to review and code qualitative video data with research team.
- Awarded **\$700** in support of my proposed research project under the supervision of Prof. Mark Warschauer, School of Education, UCI.
- Presented findings at Undergraduate Research Opportunities Program (UROP) conference, UCI.

Teaching Spatial Skills through Media Intervention

April 2016 - April 2018

- Collected data via pre- and post-test direct assessments from 80 preschool children who were randomly assigned to a group learning activity.
- Aided in the administration, scoring and cross-checking of a battery of cognitive assessments for preschool children
- Awarded **\$1000** in research support under the supervision of Prof. Drew Bailey, School of Education, UCI.
- Presented findings at Undergraduate Research Opportunities Program (UROP) conference, UC.

PRESENTATIONS

Hoang, T., Rosales, L., Zhu, Y., (May 2018). "Abstract Versus Concrete Vocabulary and Gesture for Preschool Children: Comparing Engagement Between Two Highly Similar Educational Songs," Undergraduate Research Opportunities Program, Irvine, CA. Poster presented at the 2018 UC Irvine Undergraduate Research Opportunities Program and 2019 Western Psychological Association Convention.

Sun, B., Hoang, T., Schmidt, D., (May 2019). "Toddlers and Taps: a Multi-Case Study of Young Children's Use of YouTube," Undergraduate Research Opportunities Program, Irvine, CA. Poster presented at the 2019 UC Irvine Undergraduate Research Opportunities Program

Hoang, T., (May 2019). "Effects of Lack of Affordable Housing on College Students," Undergraduate Research Opportunities Program, Irvine, CA. Poster presented at the 2019 UC Irvine Undergraduate Research Opportunities Program

Kalinowski, R., Sun, B., Valquez, R., Valencia, E., Schmidt, D., Hoang, T. (April 2020). "Crack for Kids" or Educational App?: an Ethnography of 3-4 Year Olds Learning from YouTube." Paper accepted to the American Education Research Association Annual Meeting, San Francisco.

Xu, Y., Hoang, T., Sun, B. (April 2020). "What Are You Talking To?: Understanding Children's Perceptions towards Conversational Agents." Paper accepted to the American Education Research Association Annual Meeting, San Francisco.

PRESENTATIONS UNDER REVIEW

Yao, B., Wang, D., Wu, T., Hoang, T., Sun, B. Li, T., Yu, M., and Xu, Y. (May 2021) "FairytaleQA: Educational Question-Answering Pair Generation for Children Storybooks." Paper submitted to the Conference on Empirical Method in Natural Language Processing.

PROFESSIONAL EXPERIENCE

Boys and Girls Club of Garden Grove, Academic Imagine Learning Instructor October 2019 - Present
Garden Grove, CA

- Engaged and supported 20 children's experience with the technological Imagine Learning curriculum.
- Implemented and provided support for an iPad-based program to help young English Language Learners.

Social Ecology Undergraduate Advising Office, Academic Counselor July 2019- September 2019
University of California, Irvine

- Advised in topics such as field study, academic planning, and university policies to over 150 students.

Peer Academic Advising Program, Peer Academic Advisor April 2018 – June 2019
University of California, Irvine

- Advised in topics such as field study, academic planning, and university policies to over 300 students.
- Presented 8 workshops about course planning, graduate school, etc.
- Assisted over 200 students during UCI summer freshmen and transfer orientations.

Advanced Field Study Program, Grant Writing and Research Intern October 2018 – June 2019
Costa Mesa, CA

- Collaborated with team of grant writers to compose a total of 13 grant proposals, resulting in \$32,300 of funding
- Interviewed students facing housing insecurity with a focus to understand the barriers in higher education.

Garden Grove Unified School District, College Mentor October 2017 – May 2018
Garden Grove, CA

- Worked with a total of 62 sixth graders in a small classroom setting.
- Gave weekly presentations about pursuing higher education, such as financial aid, types of colleges, etc.

ADDITIONAL TRAINING

Code in Place April 2020-May 2020
Stanford University

- Completed a 5-week introductory online Python programming course based on material from the first half of Stanford's introductory programming course, CS106A.
- Offered by Stanford during COVID-19 pandemic, with 10,000 global students and 900 volunteer teachers participating from around the world.

INTERESTS AND HOBBIES: technology, artificial intelligence, conversational agents, design