Tricia J. Ngoon

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EDUCATION University of California, San Diego, La Jolla, CA

Ph.D. in Cognitive ScienceAdviser: Dr. Scott Klemmer

2015 - Present

University of California, Berkeley, Berkeley, CA

■ B.A. in Psychology

2010 - 2013

- Graduated with Honors
- Adviser: Dr. Art Shimamura

RESEARCH EXPERIENCE

The Design Lab, UC San Diego

Graduate Student Researcher

Jun 2015 – Present

- Projects: Improving peer feedback, peer tutoring and interactions
- Supervisor: Dr. Scott Klemmer

NASA Jet Propulsion Laboratory, California Institute of Technology

Interaction Design Research Intern

Jun 2016 – Sep 2016

- Project: Provided specifications for the design of a performance monitoring tool
- Supervisor: Ben Inada

Stanford Cognitive & Systems Neuroscience Laboratory, Stanford University

Research Assistant

Jun 2013 – Jun 2015

- Projects: Structural and functional brain development in conjunction with math learning
- Supervisor: Dr. Vinod Menon

Helen Wills Neuroscience Institute, UC Berkeley

Undergraduate Research Assistant

- Feb 2012 May 2013
- Projects: Partial Volume Corrections for signal error in brain imaging
- Supervisor: Dr. Bill Jagust

Shimamura Human Neuropsychology Laboratory, UC Berkeley

Undergraduate Research Assistant

Jun 2011 - May 2013

- · Projects: Verbal retrieval practice for long-term memory
- Supervisor: Dr. Art Shimamura

PUBLICATIONS

JOURNALS & CONFERENCES

- [1] C. Ailie Fraser, <u>Tricia J. Ngoon</u>, Ariel Weingarten, Mira Dontcheva, & Scott Klemmer, "Reuse, Reduce, & Retrain: A Mixed-Initiative, Real-Time Interface for Improving Feedback," Under Review.
- [2] Tanya M. Evans, John Kochalka, <u>Tricia J. Ngoon</u>, Sarah Wu, Shaozheng Qin, Christian Battista & Vinod Menon, "Brain Structural <u>Integrity and Intrinsic Functional Connectivity Forecast 6-year Longitudinal Growth in Children's Numerical Abilities," *Journal of Neuroscience*, vol. 35, no. 33, pp. 11743–11750, 2015.</u>

EXTENDED ABSTRACTS & POSTERS

- [1] Tricia J. Ngoon, Alexander Gamero-Garrdio, & Scott Klemmer, "Supporting Peer Instruction through Evidence-Based Design of Online Instructional Templates," Work-in-Progress presented at the 3rd ACM Conference on Learning at Scale, Edinburgh, Scotland, UK, Apr 2016.
- [2] Tricia J. Ngoon, Rachel Chen, Amit Deustch, & Sean Lip "Oppia: A Community of Peer Learners to Make Conversational Learning Experiences," Demo presented at the 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing, San Francisco, CA, Feb 2016.
- [3] Christian Battista, Tanya M. Evans, <u>Tricia J. Ngoon</u>, Tianwen Chen, & Vinod Menon, "Six-Year Longitudinal Growth-Curve Modeling of Functional Brain Changes during Problem Solving in Children," Poster presented at the *Society for Neuroscience Annual Meeting*, Washington, D.C. Nov 2014.

- [4] Tanya M. Evans, John Kochalka, <u>Tricia J. Ngoon</u>, Christian Battista, & Vinod Menon, "Dorsal-Ventral Visual Stream Structural Integrity and Functional Connectivity Predict 6-Year Longitudinal Growth in Math Skills," Poster presented at the *Society for Neuroscience Annual Meeting*, Washington, D.C., Nov 2014.
- [5] Tricia J. Ngoon & Art P. Shimamura, "Verbal Retrieval Practice for Long-Term Retention of Information," Poster presented at the *Harvard National Collegiate Research Conference*, Cambridge, MA, Jan 2013.
- [6] Tricia J. Ngoon & Art P. Shimamura, "The efficacy of verbal retrieval practice: Implications for student learning," Poster presented at the *UC Berkeley Summer Undergraduate Research Fellowship Conference*, Berkeley, CA, Aug 2012.

AWARDS & SCHOLARSHIPS

Honorable Mention, Graduate Research Fellowship National Science Foundation
 Honorable Mention in the category STEM Education-Science Education.

Competitive Edge Graduate Fellowship, UC San Diego
\$3,000 Department-nominated fellowship for those who demonstrate a commitment to diversity and equity in the graduate community at UCSD.

Dean's Graduate Recruitment Fellowship, UC Irvine School of Education (Declined)
\$5,000 recruitment award for academic excellence.

Regents' & Chancellor's Research Fellowship, UC Berkeley
\$650 for independent honors thesis research.

Summer Undergraduate Research Fellowship, UC Berkeley
\$3,500 full-time competitive summer research fellowship.

Regent's & Chancellor's Scholarship, UC Berkeley
Most prestigious academic undergraduate scholarship awarded to 1% of each incoming class.

TEACHING EXPERIENCE

Interaction Design (COGS 120/CSE 170), UC San Diego

Teaching Assistant

2016 Winter, 2016 Fall

• Guided students through the human-centered design process to develop a mobile web application.

Social Computing (COGS 160), UC San Diego

Teaching Assistant

2016 Spring

2015

• Facilitated class discussion and helped students create novel social computing experiences.

Interaction Design Startup Studio (COGS 160E), UC San Diego

Teaching Assistant

2016 Spring

• Guided students in ideating and prototyping a technological startup.

SERVICE & LEADERSHIP

Volunteer Tutor, San Diego Refugee Tutoring

Tutor refugee children in subjects such as math and English.

Nov 2016 - Present

Graduate Student Representative, UC San Diego Cognitive Science Department

■ Liaison with faculty to present the interests of graduate students in the department. Sep 2016 – Present

Volunteer Teaching Aid, Science is Elementary

Perform hands-on experiments with children in underserved elementary schools. Jan 2014 – Dec 2014

External Vice-President, UC Berkley Regent's & Chancellor's Scholars Association

 Oversee committees that organize events to foster relationships between scholars and faculty, alumni, and industry connections.

Aug 2012 – May 2013

Performance Coordinator, Cal Wushu

 Organized Cal Wushu performances and collaborations to share the Chinese culture through martial arts

Jun 2011 – May 2013

OTHER WORK EXPERIENCE

The Oppia Foundation

User Experience Researcher

Aug 2015 – Mar 2016

 Prototyped and tested onboarding experiences for to help new users create effective educational content.