Tricia J. Ngoon

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EDUCATION

University of California, San Diego, La Jolla, CA

- Ph.D. in Cognitive Science — 2015 – Present
  - Adviser: Dr. Scott Klemmer

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, Tricia J. Ngoon, 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, Tricia J. Ngoon, Sarah Wu, Shaozheng Qin, Christian Battista & Vinod Menon, "Brain Structural 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.

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, Tricia J. Ngoon, 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, Tricia J. Ngoon, 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.	2016
	■ 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.	2015
	■ Dean's Graduate Recruitment Fellowship, UC Irvine School of Education (Declined) $5,000 recruitment award for academic excellence.	2015
	■ Regents' & Chancellor's Research Fellowship, UC Berkeley $650 for independent honors thesis research.	2013
	■ Summer Undergraduate Research Fellowship, UC Berkeley $3,500 full-time competitive summer research fellowship.	2012
	■ Regent's & Chancellor's Scholarship, UC Berkeley Most prestigious academic undergraduate scholarship awarded to 1% of each incoming class.	2010

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
  - • 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

Event Co-Coordinator, UC San Diego Graduate Women in Computing

- ■ Plan and organize events that promote diversity within technical fields. — Apr 2017 – Present

Volunteer, Birch Aquarium at Scripp's Institution of Oceanography

- ■ Engage visitors in marine science by explaining concepts and exhibits. — Apr 2017 – 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