

Tricia J. Ngoon

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EDUCATION	Ph.D. in Cognitive Science University of California, San Diego <i>Advisor: Dr. Scott Klemmer</i>	2015 – 2021
	M.S. in Cognitive Science University of California, San Diego <i>Advisor: Dr. Scott Klemmer</i>	2015 – 2018
	B.A. in Psychology with Honors University of California, Berkeley	2010 – 2013
RESEARCH EXPERIENCE	Postdoctoral Fellow <i>Carnegie Mellon University Human-Computer Interaction Institute</i>	2021 –
	Affiliated Ph.D Student Researcher <i>Early Learning & Cognition Lab at UC San Diego</i>	2017 – 2021
	Ph.D Student Researcher <i>The Design Lab at UC San Diego</i>	2015 – 2021
	Creative Technologies Lab Intern <i>Adobe Research</i>	Summer 2020
	Creative Intelligence Lab Intern <i>Adobe Research</i>	Summer 2019
	User Experience Research Intern <i>NASA Jet Propulsion Laboratory</i>	Summer 2016
	Research Assistant <i>Stanford Cognitive & Systems Neuroscience Lab</i>	2013 – 2015
	Undergraduate Research Assistant <i>UC Berkeley Helen Wills Neuroscience Institute</i>	2012 – 2013
	Undergraduate Research Assistant <i>UC Berkeley Human Neuropsychology Lab</i>	2011 – 2013

PUBLICATIONS	Conference & Journal Papers	
	Tricia J. Ngoon, Joy O. Kim, & Scott Klemmer. Thinking with Boxes. Tools for Abstraction Enable Flexible Creative Work. In preparation.	
	Tricia J. Ngoon, Joy O. Kim, & Scott Klemmer. 2021. Shown: Adaptive Conceptual Guidance Aids Example Use in Creative Tasks. To appear in <i>ACM Designing Interactive Systems (DIS) Proceedings</i> .	
	C. Ailie Fraser, Tricia J. Ngoon, Mira Dontcheva, & Scott Klemmer. 2019. RePlay: Contextually Presenting Learning Videos across Software Applications. In <i>ACM Human Factors in Computing Systems (CHI) Proceedings</i> . Honorable Mention Award (Top 5%)	

Tricia J. Ngoon*, C. Ailie Fraser*, Ariel Weingarten, Mira Dontcheva, & Scott Klemmer. 2018. Interactive Techniques for Improving Creative Feedback. In *ACM Human Factors in Computing Systems (CHI) Proceedings*.
Honorable Mention Award (Top 5%) (* indicates equal contribution)

Christian Battista, Tanya M. Evans, **Tricia J. Ngoon**, Tianwen Chen, Lang Chen, John Kochalka, & Vinod Menon. 2018. Mechanisms of Interactive Specialization and Emergence of Functional Brain Circuits Supporting Cognitive Development in Children. *Nature Partner Journals Science of Learning*, 3(1).

Tanya M. Evans, John Kochalka, **Tricia J. Ngoon**, Sarah Wu, Shaozheng Qin, Christian Battista, & Vinod Menon. 2015. Brain Structural Integrity and Intrinsic Functional Connectivity Forecasts 6-Year Longitudinal Growth in Children's Numerical Abilities. *Journal of Neuroscience*, 35(33). 11743-11750.

Graduate Symposiums

Tricia J. Ngoon. 2019. Overcoming Satisficing: Scaffolds for Amplifying Creativity. Graduate Student Symposium abstract in *ACM Creativity & Cognition (C&C) Proceedings*.

Tricia J. Ngoon. 2019. Inventive Scaffolds Catalyze Creative Learning. Doctoral Consortium abstract in *ACM Human Factors in Computing Systems (CHI) Proceedings*.

Extended Abstracts

Tricia J. Ngoon, Joy O. Kim, Caren M. Walker, & Scott Klemmer. 2020. Amplifying Exploratory Thinking through Creativity Support Tools. In *ACM Human Factors in Computing Systems (CHI) "Where Art Meets Technology" Workshop*.

Tricia J. Ngoon, Caren M. Walker, & Scott Klemmer. 2019. The Dark Side of Satisficing: Setting the Temperature of Creative Thinking. In *ACM Creativity & Cognition (C&C) Proceedings*.

Samuel Lau, **Tricia J. Ngoon**, Vineet Pandey, & Scott Klemmer. 2019. Experiment Reconstruction Reduces Fixation on Surface Details of Explanations. In *ACM Creativity & Cognition (C&C) Proceedings*.

C. Ailie Fraser, **Tricia J. Ngoon**, Ariel Weingarten, Mira Dontcheva, & Scott Klemmer. 2017. CritiqueKit: A Mixed-Initiative, Real-Time Interface for Improving Feedback. In *ACM User Interface Software & Technology (UIST) Companion*.

Tricia J. Ngoon, Alexander Gamero-Garrido, & Scott Klemmer. 2016. Supporting Peer Instruction through Evidence-Based Design of Online Instructional Templates. In *ACM Learning at Scale (L@S) Proceedings*.

Tricia J. Ngoon, Rachel Chen, Amit Deutsch, & Sean Lip. 2016. Oppia: A Community of Peer Learners to Make Conversational Learning Experiences. In *ACM Computer-Supported Cooperative Work & Social Computing (CSCW) Companion*.

Honorable Mention Paper Award, ACM Human Factors in Computing Systems (CHI)	2019
Honorable Mention Paper Award, ACM Human Factors in Computing Systems (CHI)	2018
Honorable Mention, National Science Foundation Graduate Research Fellowship	2015 – 2016
UC San Diego Competitive Edge Graduate Fellowship	2015
UC Berkeley Regents' & Chancellor's Research Fellowship	2013
UC Berkeley Summer Undergraduate Research Fellowship	2012
UC Berkeley Regents' & Chancellor's Scholarship	2010 – 2013

TEACHING EXPERIENCE

UC San Diego – Instructor of Record
 DSGN 90: Web Programming Design Seminar

UC San Diego – Teaching Assistant
 DSGN 1: Design of Everyday Things
 COGS 17: Neurobiology of Cognition
 COGS 112: Psychology of Humor
 COGS 120/CSE 170: Interaction Design
 COGS 122: Interaction Design Startup Studio
 COGS 123: Social Computing

INVITED TALKS

University of Wisconsin, Madison HCI Seminar. Virtual.	Nov 2020
UC San Diego Cognitive Science Students Association Speaker Series. San Diego, CA.	Feb 2020
Berkeley Institute of Design Seminar. Berkeley, CA.	Sept 2019
Stanford HCI Seminar. Palo Alto, CA.	Aug 2019
Cognition at the Shore Speaker Series. San Diego, CA.	Mar 2019
Harvard Undergraduate Research Conference. Cambridge, MA.	Jan 2013
UC Berkeley Summer Undergraduate Research Fellows Conference. Berkeley, CA.	Aug 2012

SERVICE & LEADERSHIP

Leadership	
Head Teaching Assistant <i>UC San Diego Cognitive Science Department</i>	2019 – 2020
Student Volunteer Co-Chair <i>ACM Creativity & Cognition (C&C)</i>	2019
Graduate Social Events Coordinator <i>UC San Diego Cognitive Science Department</i>	2017 – 2019
Event Coordinator <i>UC San Diego Graduate Women in Computing</i>	2017 – 2018

Graduate Student Representative <i>UC San Diego Cognitive Science Department</i>	2016 – 2017
External Vice-President <i>UC Berkeley Regents' & Chancellor's Scholars Association</i>	2012 – 2013
Performance Coordinator <i>Cal Wushu</i>	2011 – 2013
Faculty Committee Co-Chair <i>UC Berkeley Regents' & Chancellor's Scholars Association</i>	2011 – 2012
Reviewer <i>ACM Creativity & Cognition (C&C)</i> <i>ACM Computer-Supported Cooperative Work (CSCW)</i> <i>American Education Research Association (AERA)</i> <i>ACM Designing Interactive Systems (DIS)</i> <i>Cognitive Science Society Conference</i> <i>ACM Human Factors in Computing Systems (CHI)</i>	
Mentorship <i>Vivian Leung, Undergraduate Research Assistant</i> <i>Michelle Lee, Research Assistant</i> <i>Nicolas La Polla, Undergraduate Research Assistant</i> <i>Jasper Travers, Undergraduate Research Assistant</i>	
