

Tricia J. Ngoon

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Website: tngoon.github.io

EDUCATION	Ph.D. in Cognitive Science	2015 – 2021
	University of California, San Diego <i>Advisor: Dr. Scott Klemmer</i>	
	M.S. in Cognitive Science	2015 – 2018
	University of California, San Diego <i>Advisor: Dr. Scott Klemmer</i>	
	B.A. in Psychology with Honors	2010 – 2013
	University of California, Berkeley	

RESEARCH EXPERIENCE	Postdoctoral Fellow	2021 –
	<i>Carnegie Mellon University Human-Computer Interaction Institute</i>	
	Affiliated Ph.D Student Researcher	2017 – 2021
	<i>Early Learning & Cognition Lab at UC San Diego</i>	
	Ph.D Student Researcher	2015 – 2021
	<i>The Design Lab at UC San Diego</i>	
	Creative Technologies Lab Intern	Summer 2020
	<i>Adobe Research</i>	
	Creative Intelligence Lab Intern	Summer 2019
	<i>Adobe Research</i>	
	User Experience Research Intern	Summer 2016
	<i>NASA Jet Propulsion Laboratory</i>	
	Research Assistant	2013 – 2015
	<i>Stanford Cognitive & Systems Neuroscience Lab</i>	
	Undergraduate Research Assistant	2012 – 2013
	<i>UC Berkeley Helen Wills Neuroscience Institute</i>	
	Undergraduate Research Assistant	2011 – 2013
	<i>UC Berkeley Human Neuropsychology Lab</i>	

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. Shöwn: Adaptive Conceptual Guidance Aids Example Use in Creative Tasks. In *ACM Designing Interactive Systems (DIS) Proceedings*.

C. Ailie Fraser, **Tricia J. Ngoon**, Mira Dontcheva, & Scott Klemmer. 2019. RePlay: Contextually Presenting Learning Videos across Software Applications. In *ACM Human Factors in Computing Systems (CHI) Proceedings*. **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.

Dissertation

Tricia J. Ngoon. 2021. Interactive Attunement Catalyzes Creative Learning. UC San Diego PhD Dissertation.

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*.

HONORS & AWARDS	Selected for Rising Stars in EECS Workshop	2019
	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>	
