

# 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 &amp; 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 &amp; 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	
	Prasoon Patidar, <b>Tricia J. Ngoon</b> , Nikhil Behari, Neeharika Voety, Amy Ogan, Chris Harrison, & Yuvraj Agarwal. Edulyze: Learning Analytics for Real-World Classrooms at Scale. Under review.	
	<b>Tricia J. Ngoon</b> , Joy O. Kim, & Scott Klemmer. 2021. Shown: Adaptive Conceptual Guidance Aids Example Use in Creative Tasks. In <i>ACM Designing Interactive Systems (DIS) Proceedings</i> .	
	C. Ailie Fraser, <b>Tricia J. Ngoon</b> , Mira Dontcheva, & Scott Klemmer. 2019. RePlay: Contextually Presenting Learning Videos across Software Applications. In <i>ACM Human Factors in Computing Systems (CHI) Proceedings</i> . <b>Honorable Mention Award (Top 5%)</b>	

**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*.

<b>HONORS &amp; AWARDS</b>	Selected for Rising Stars in EECS Workshop	<b>2019</b>
	Honorable Mention Paper Award, ACM Human Factors in Computing Systems (CHI)	<b>2019</b>
	Honorable Mention Paper Award, ACM Human Factors in Computing Systems (CHI)	<b>2018</b>
	Honorable Mention, National Science Foundation Graduate Research Fellowship	<b>2015 – 2016</b>
	UC San Diego Competitive Edge Graduate Fellowship	<b>2015</b>
	UC Berkeley Regents' & Chancellor's Research Fellowship	<b>2013</b>
	UC Berkeley Summer Undergraduate Research Fellowship	<b>2012</b>
	UC Berkeley Regents' & Chancellor's Scholarship	<b>2010 – 2013</b>
<b>TEACHING EXPERIENCE</b>	<b>UC San Diego – Instructor of Record</b>	
	DSGN 90: Web Programming Design Seminar	
	<b>UC San Diego – Teaching Assistant</b>	
	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	
<b>INVITED TALKS</b>	University of Wisconsin, Madison HCI Seminar. Virtual.	<b>Nov 2020</b>
	UC San Diego Cognitive Science Students Association Speaker Series. San Diego, CA.	<b>Feb 2020</b>
	Berkeley Institute of Design Seminar. Berkeley, CA.	<b>Sept 2019</b>
	Stanford HCI Seminar. Palo Alto, CA.	<b>Aug 2019</b>
	Cognition at the Shore Speaker Series. San Diego, CA.	<b>Mar 2019</b>
	Harvard Undergraduate Research Conference. Cambridge, MA.	<b>Jan 2013</b>
	UC Berkeley Summer Undergraduate Research Fellows Conference. Berkeley, CA.	<b>Aug 2012</b>
<b>SERVICE &amp; LEADERSHIP</b>	<b>Leadership</b>	
	<b>Head Teaching Assistant</b> <i>UC San Diego Cognitive Science Department</i>	<b>2019 – 2020</b>
	<b>Student Volunteer Co-Chair</b> <i>ACM Creativity &amp; Cognition (C&amp;C)</i>	<b>2019</b>

<b>Graduate Social Events Coordinator</b> <i>UC San Diego Cognitive Science Department</i>	2017 – 2019
<b>Event Coordinator</b> <i>UC San Diego Graduate Women in Computing</i>	2017 – 2018
<b>Graduate Student Representative</b> <i>UC San Diego Cognitive Science Department</i>	2016 – 2017
<b>External Vice-President</b> <i>UC Berkeley Regents' &amp; Chancellor's Scholars Association</i>	2012 – 2013
<b>Performance Coordinator</b> <i>Cal Wushu</i>	2011 – 2013
<b>Faculty Committee Co-Chair</b> <i>UC Berkeley Regents' &amp; Chancellor's Scholars Association</i>	2011 – 2012
<b>Reviewer</b> <i>ACM Creativity &amp; Cognition (C&amp;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>	
<b>Mentorship</b> <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>	

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