

# Tricia J. Ngoon

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EDUCATION	<b>Ph.D. in Cognitive Science</b> <b>University of California, San Diego</b> <i>Advisor: Dr. Scott Klemmer</i> <i>Committee: Dr. Caren Walker, Dr. Joy Kim, Dr. Philip Guo, Dr. Steven Dow, &amp; Dr. William Griswold</i>	<b>2015 – 2021</b>
	<b>M.S. in Cognitive Science</b> <b>University of California, San Diego</b> <i>Advisor: Dr. Scott Klemmer</i>	<b>2015 – 2018</b>
	<b>B.A. in Psychology with Honors</b> <b>University of California, Berkeley</b>	<b>2010 – 2013</b>

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

## PUBLICATIONS

### Conference & Journal Papers

- Vikram Cannanure, Eloisa Avila, **Tricia J. Ngoon**, Yves Adjii, Sharon Wolf, Kaja Jasinska, Tim Brown, & Amy Ogan. 2022. “We dream of climbing the ladder, for getting there, we have to do our job better”: Designing for Teacher Aspirations in Rural Côte d’Ivoire. To appear in *ACM Conference on Computing Systems & Sustainable Societies (COMPASS) Proceedings*.
- Tricia J. Ngoon**, Joy O. Kim, & Scott Klemmer. 2021. Shown: 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*.

<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>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	
<b>INVITED TALKS</b>	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	
<b>SERVICE &amp; LEADERSHIP</b>	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	
	<b>Service</b>	
	Program Committee Member, <i>ACM Creativity &amp; Cognition (C&amp;C)</i>	

Head Teaching Assistant, *UC San Diego Cognitive Science Department*  
Student Volunteer Co-Chair, *ACM Creativity & Cognition (C&C)*  
Graduate Social Events Coordinator, *UC San Diego Cognitive Science Department*  
Event Coordinator, *UC San Diego Graduate Women in Computing*  
Graduate Student Representative, *UC San Diego Cognitive Science Department*  
External Vice-President, *UC Berkeley Regents' & Chancellor's Scholars Association*  
Faculty Committee Co-Chair, *UC Berkeley Regents' & Chancellor's Scholars Association*

### **Reviewer**

ACM Ubiquitous Computing (IMWUT)  
ACM Creativity & Cognition (C&C)  
ACM Computer-Supported Cooperative Work (CSCW)  
ACM Human Factors in Computing Systems (CHI)  
ACM Designing Interactive Systems (DIS)  
Cognitive Science Society Conference  
International Society for Learning Sciences (ISLS)  
American Education Research Association (AERA)

### **Mentorship**

Prasoon Pratidar, *PhD Student*  
Vikram Cannanure, *PhD Student*  
Haley Litt, *Undergraduate Research Assistant*  
Banso Nguyen, *Undergraduate Research Assistant*  
Vivian Leung, *Undergraduate Research Assistant*  
Michelle Lee, *Research Assistant*  
Nicolas La Polla, *Undergraduate Research Assistant*  
Jasper Travers, *Undergraduate Research Assistant*

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