Tricia J. Ngoon

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Website: tngoon.github.io

EDUCATION

Ph.D. in Cognitive Science
University of California, San Diego
Advisor: Dr. Scott Klemmer
2015 – 2021

M.S. in Cognitive Science
University of California, San Diego
Advisor: Dr. Scott Klemmer
2015 – 2018

B.A. in Psychology with Honors
University of California, Berkeley
2010 – 2013

RESEARCH EXPERIENCE

Postdoctoral Fellow
Carnegie Mellon University Human-Computer Interaction Institute
2021 –

Affiliated Ph.D Student Researcher
Early Learning & Cognition Lab at UC San Diego
2017 – 2021

Ph.D Student Researcher
The Design Lab at UC San Diego
2015 – 2021

Creative Technologies Lab Intern
Adobe Research
Summer 2020

Creative Intelligence Lab Intern
Adobe Research
Summer 2019

User Experience Research Intern
NASA Jet Propulsion Laboratory
Summer 2016

Research Assistant
Stanford Cognitive & Systems Neuroscience Lab
2013 – 2015

Undergraduate Research Assistant
UC Berkeley Helen Wills Neuroscience Institute
2012 – 2013

Undergraduate Research Assistant
UC Berkeley Human Neuropsychology Lab
2011 – 2013

PUBLICATIONS

Conference & Journal Papers

Tricia J. Ngoon*, Franceska Xhakaj*, Na Young Lee, Amy Luo, Nikhil Behari, John Zimmerman, & Amy Ogan. Motivating Reflection & Goal-Setting for College Instructors. Under review. (* indicates equal contribution)

Angela Stewart, **Tricia J. Ngoon**, Daniel Noh, Vaishnavi Gorantla, Stephanie Eristof, Ung-Sang Lee, Sherice Clarke, John Zimmerman, & Amy Ogan. "You Expect Me to Know What 40 Students are Doing?" Data as a Tool to Support Teacher Agency. Under review.

Prasoon Patidar, **Tricia J. Ngoon**, Nikhil Behari, Neeharika Vogety, Amy Ogan, Chris Harrison, & Yuvraj Agarwal. Edulyze: Learning Analytics for Real-World Classrooms at Scale. Under review.

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	2019 – 2020
UC San Diego Cognitive Science Department	
Student Volunteer Co-Chair	2019
ACM Creativity & Cognition (C&C)	
Graduate Social Events Coordinator	2017 – 2019
UC San Diego Cognitive Science Department	
Event Coordinator	2017 – 2018
UC San Diego Graduate Women in Computing	
Graduate Student Representative	2016 – 2017
UC San Diego Cognitive Science Department	
External Vice-President	2012 – 2013
UC Berkeley Regents' & Chancellor's Scholars Association	
Performance Coordinator	2011 – 2013
Cal Wushu	
Faculty Committee Co-Chair	2011 – 2012
UC Berkeley Regents' & Chancellor's Scholars Association	

Reviewer

ACM Ubiquitous Computing (IMWUT)

ACM Creativity & Cognition (C&C)

ACM Computer-Supported Cooperative Work (CSCW)

American Education Research Association (AERA)

ACM Designing Interactive Systems (DIS)

Cognitive Science Society Conference

ACM Human Factors in Computing Systems (CHI)

Mentorship

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*