Tricia.	J. Ngoor	1
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Tricia J. Ngoon		Website: tngoon.github.io	
EDUCATION	Ph.D., Cognitive Science University of California – San Diego	2015 – 2021	
	M.S., Cognitive Science University of California – San Diego	2015 – 2018	
	B.A., Psychology with Honors University of California – Berkeley	2010 – 2013	
ACADEMIC APPOINTMENTS	Carnegie Mellon University, Pittsburgh, PA Human-Computer Interaction Institute Postdoctoral Researcher	2021 –	
HONORS & AWARDS	National Science Foundation STEM Educatio Research Fellowship	n Postdoctoral 2022 – 2024	
	Selected for Rising Stars in EECS Workshop	2019	
	Honorable Mention Paper Award, ACM Hum Computing Systems (CHI)	an Factors in 2019	
	Honorable Mention Paper Award, ACM Hum Computing Systems (CHI)	an Factors in 2018	
	Honorable Mention, National Science Found Research Fellowship	ation Graduate 2016	
	UC San Diego Competitive Edge Graduate F	ellowship 2015	
	UC Berkeley Regents' & Chancellor's Researc	th Fellowship 2012 – 2013	
	UC Berkeley Summer Undergraduate Research	ch Fellowship 2012	
	UC Berkeley Regents' & Chancellor's Scholar	ship 2010 – 2013	
PRIOR EMPLOYMENT	Adobe Research, Virtual Creative Intelligence Laboratory Research Intern	Summer 2020	
	Adobe Research, San Francisco, CA Creative Intelligence Laboratory Research Intern	Summer 2019	
	NASA Jet Propulsion Laboratory, La Cañada UX Research Intern	Flintridge, CA Summer 2016	
	Stanford University School of Medicine, Palo	Alto, CA 2013 – 2015	

Email: tngoon@andrew.cmu.edu

Stanford Cognitive & Systems Neuroscience Laboratory
Research Assistant

University of California – Berkeley, Berkeley, CA *Helen Wills Neuroscience Center* Undergraduate Research Assistant

2012 - 2013

PUBLICATIONS

Conference & Journal Papers

- 1. **Tricia J. Ngoon**, Vivian Y. Leung, Haley Litt, Banso Nguyen, & Caren M. Walker. EPiC: An Exploration in Designing Interactive Tools for Research with Children. Under review.
- 2. **Tricia J. Ngoon**, David Kovalev, Prasoon Patidar, Yuvraj Agarwal, Chris Harrison, John Zimmerman, & Amy Ogan. "An instructor can [already] keep track of 30 students": Students' Perceptions of Smart Classrooms for Improving Teaching and Their Beliefs about Teaching and Learning. Under review.
- 3. Vikram Cannanure, Eloisa Avila, **Tricia J. Ngoon**, Yves Adji, 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. In ACM Conference on Computing Systems & Sustainable Societies (COMPASS) Proceedings.
- 4. **Tricia J. Ngoon.** Interactive Attunement Catalyzes Creative Learning. *UC San Diego Ph.D. Dissertation.*
- 5. **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%)
- 7. 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)
- 8. 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).
- 9. 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.

Extended Abstracts & Other Publications

- Aastha Patel, Vikram Cannanure, Tricia J. Ngoon, Timothy Brown, & Amy Ogan. Enabling the Enablers: Unpacking Technology-use by Teacher-Mentors in Low-Infrastructure Contexts. Under review.
- 2. **Tricia J. Ngoon**, Vivian Y. Leung, Micah Goldwater, and Caren M. Walker. 2022. Exploration as a Strategy to Support Children's Pattern Learning. In *Cognitive Science Society Conference Proceedings*.
- 3. **Tricia J. Ngoon**, Vivian Y. Leung, & Caren M. Walker. 2022. How Exploration Supports Children's Pattern Learning. Abstract at the *Cognitive Development Society (CDS) Conference*.
- 4. **Tricia J. Ngoon**, Prasoon Patidar, Amy Ogan, Chris Harrison, Yuvraj Agarwal, & John Zimmerman. 2022. Professional Informatics: Personalized, Data-driven Professional Development. Position paper in the *Personal Informatics & Artificial Intelligence Workshop at the ACM Human Factors in Computing Systems (CHI) Conference.*
- 5. **Tricia J. Ngoon**. 2019. Overcoming Satisficing: Scaffolds for Amplifying Creativity. Graduate Student Symposium abstract in *ACM Creativity & Cognition (C&C) Proceedings*.
- 6. **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*.
- 7. **Tricia J. Ngoon**. 2019. Inventive Scaffolds Catalyze Creative Learning. Doctoral Consortium abstract in ACM Human Factors in Computing Systems (CHI) Proceedings.
- 8. 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*.

- 9. 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) Conference 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.
- 11. **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) Conference Companion.

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INVITED TALKS	University of Pittsburgh Learning Research & Development Center. Pittsburgh, PA.	Apr 2022
	Carnegie Mellon University HCII Seminar. Pittsburgh, PA	Jan 2022
	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
	Neurobiology of Cognition Guest Lecture. San Diego, CA.	Jul 2017
	Harvard Undergraduate Research Conference. Cambridge, MA.	Jan 2013
	UC Berkeley Summer Undergraduate Research Fellows Conference. Berkeley, CA.	Aug 2012

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

SERVICE	Service		
	Student Scholarships Co-Chair, AAAI Conference on Human Computation & Crowdsourcing	2023	
	Program Committee Member, ACM Creativity & Cognition (C&C)	2021, 2023	
	NSF Innovative Technology Experiences for Students & Teachers Review Panelist	2022	
	Head Teaching Assistant, UC San Diego Cognitive Science Department	2019 – 2021	
	Student Volunteer Co-Chair, ACM Creativity & Cognition (C&C)	2019	
	Graduate Social Events Coordinator, UC San Diego Cognitive Science Department	2017 – 2019	
	K-12 Outreach Coordinator, UC San Diego Graduate Women in Computing	2018	
	Event Coordinator, UC San Diego Graduate Women in Computing	2017 – 2018	
	Graduate Student Representative, UC San Diego Cognitive Science Department	2016 – 2017	
	External Vice-President, UC Berkeley Regents' & Chancellor's Scholars Association	2012 – 2013	
	Faculty Committee Co-Chair, UC Berkeley Regents' & Chancellor's Scholars Association	2011 – 2012	
	Reviewer		
	ACM Interactive, Mobile, Wearable, & Ubiquitous Technologies (IN 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) Artificial Intelligence & Education (AIED)		
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Mentorship

Prasoon Pratidar, PhD Student

Vikram Cannanure, PhD Student
Prithika Acharya, Master's Student
Aastha Patel, Master's Student
Jinfan (Sara) Bai, Master's Student
Yu (Lucia) Fang, Undergraduate Research Assistant
Longjie Guo, Undergraduate Research Assistant
David Kovalev, Undergraduate Research Assistant
Lujia (Lesley) Yan, Undergraduate Research Assistant
Adriana Poznanski, Undergraduate Research Assistant
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