

Sarah D'Angelo

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RESEARCH INTERESTS	Human-Computer Interaction, Collaboration, Learning, Eye-Tracking, Remote Work, Design
EDUCATION	<p>Northwestern University, Evanston, IL</p> <p>Ph.D. Candidate, Technology and Social Behavior 2013 - (expected) 2018</p> <ul style="list-style-type: none">• Dissertation Topic: “Contextually Relevant Gaze Representations for Remote Learning”• Advisors: Darren Gergle and Michael Horn <p>University of California, San Diego, La Jolla, CA</p> <p>B.S. Cognitive Science specialization in HCI with Distinction <i>Cum Laude</i> 2010 - 2013</p> <ul style="list-style-type: none">• Honors Thesis Advisors: Jim Hollan and Anne Marie Piper
GRANTS AND AWARDS	<p>Dr. Scholl Foundation Grant (\$10,000) 2014</p> <p>National Science Foundation Graduate Research Fellowship (GRFP) 2013-2016</p> <p>NSF Temporal Dynamics of Learning Center Trainee Fellowship 2012-2013</p>
RESEARCH EXPERIENCE	<p>Collaborative Technology Lab, Northwestern 2013-Present <i>Research Assistant</i> Designing and conducting dual eye tracking experiments to understand coordination in remote work.</p> <p>Tangible Interaction Design and Learning Lab, Northwestern 2013-Present <i>Research Assistant</i> Developing collaborative educational games to teach children about sustainability in informal learning environments.</p> <p>VIBE Group, Microsoft Research Summer 2016 <i>Research Intern</i> Developed a novel design of gaze awareness to support effective communication between remote pair programmers.</p> <p>Computer Human Interaction in Learning and Instruction, EPFL Fall 2015 <i>Research Assistant</i> Designed and conducted an experiment to evaluate visual augmentations (e.g. gaze awareness) for MOOC style video lectures.</p>
PUBLICATIONS	<p>D'Angelo, S., and Begel, A. Improving Communication with Shared Gaze Awareness in Remote Pair Programming. <i>Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI)</i> 2017</p> <p>Sharma, K., D'Angelo, S., Gergle, D., Dillenbourg, P. Visual Augmentation of Deictic Gestures in MOOC videos. <i>International Conference of Learning Sciences (ICLS)</i> 2016</p> <p>D'Angelo, S. and Gergle, D. Gazed and Confused: Understanding and Designing Shared Gaze for Remote Collaboration. <i>Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI)</i> 2016</p> <p>D'Angelo, S., Pollock, D.H., Horn, M.S. Fishing with Friends: Using tabletop games to raise environmental awareness in aquariums. <i>Proceedings of Interaction Design and Children (IDC)</i> 2015</p>

Horn, M, Banerjee, A., **D'Angelo, S.**, Kuo, P., Pollock, D., Stevens, R. Turn Up the Heat! Board Games, Environmental Sustainability, and Cultural Forms. *Games Learning and Society (GLS)* 2014

Piper, A.M., **D'Angelo, S.**, and Hollan, J. Going Digital: Understanding Paper and Photo Documentation Practices in Early Childhood Education. *Proceedings of ACM Conference on Computer-Supported Cooperative Work (CSCW)* 2013

WORKSHOPS AND SYMPOSIA

Sharma, K., Jermann, J., Dillenbourg, P., Rau, M., Pardos, Z., Schneider, B., **D'Angelo, S.**, Gergle, D., Prieto, L., and Rummel, N. (*Under Review at The 12th International Conference on Computer Supported Collaborative Learning*) "CSCL and Eye-tracking: Experiences, Opportunities and Challenges"

D'Angelo, S. "Contextually Relevant Gaze Representations for Remote Learning." Doctoral Consortium at *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI)* 2017

POSTER PRESENTATIONS AND DEMOS

Li, J., Manavalan, M., **D'Angelo, S.**, Gergle, D. "Designing Shared Gaze for Remote Collaboration" *Extended Abstracts of ACM Conference on Computer-Supported Cooperative Work (CSCW)* 2016

Horn, M., Banerjee, A., **D'Angelo, S.**, Kuo, P., Pollock, D., Stevens, R., "Game Arcade: Turn Up the Heat!, Educational Game Arcade" *Games Learning and Society (GLS)* 2014 (Demo)

Malmir, M., **D'Angelo, S.**, Johnson, D., Alon, R., Forster, D., Alac, M., Movellan, J. "RUBI 5 Update: Faces and Objects in Robot-Child Interactions" *Temporal Dynamics of Learning Center NSF Site Visit* 2013.

D'Angelo, S., Carmack, S., Anagnostaras, S., "Temporally Graded Retrograde Amnesia of Contextual Fear after Hippocampal Damage in Mice" *22nd Annual UCLA Psychology Undergraduate Research Conference* 2013

D'Angelo, S., Piper, A.M., Hollan, J. "Photos for Documentation and Communication in Early Childhood" *Extended Abstracts of ACM Conference on Computer-Supported Cooperative Work (CSCW)* 2013

TEACHING EXPERIENCE

Instructor, Human Computer Interaction (CIS 330), NU Winter 2017

Teaching Assistant, Technology and Human Interaction (Comm 351/EECS 395), NU Spring 2016

Teaching Assistant, Technology and Human Interaction (Comm 351), NU Spring 2015

Teaching Assistant, Human Computer Interaction (EECS 330), Northwestern (NU) Winter 2015

Instructional Assistant, Intro to Cognitive Science (Cogs 1), UCSD Spring 2013

Instructional Assistant, Mind and Brains (Cogs 11), UCSD Winter 2013

UNDERGRADUATE RESEARCH EXPERIENCE

Human Computer Interaction and D-Cog Lab, UCSD **2011-2013**
Honors Student Conducted and presented honors thesis research on understanding paper and photo documentation practices in early childhood education.

Molecular Cognition Lab, UCSD **2011-2013**
Research Assistant Conducted fear conditioning experiments with mice to understand retrograde

amnesia and memory.

Rayner Eye-Tracking Lab, UCSD

2010-2013

Research Assistant Conducted eye-tracking experiments to understand eye movements during reading and comprehension.

Research on Autism and Development Lab, UCSD

2012-2013

TDLC Research Trainee Developed eye tracking experiments to understand eye movements and reading behavior in children with Autism Spectrum Disorder and explored applications for robot-child interaction in early childhood education.

OUTREACH, ORGANIZATIONS, AND MEMBERSHIPS	<ul style="list-style-type: none">• Association for Computing Machinery (ACM) - <i>Reviewer</i>: CHI, CSCW, IDC• Northwestern Women in Computing• Audience Research and Evaluation, John G Shedd Aquarium• Visitor Studies, Peggy Notebaert Nature Museum• Data Analyst, Workplace Technologies Research Inc	2013-Present 2013-Present 2014-2015 2014-2015 2012-2013
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STUDENTS
MENTORED

Nancy Yao, Undergraduate in Computer Science, Northwestern
Jerry Li, Undergraduate in Computer Science, Northwestern (now at Google)
Ivy Zhang, Undergraduate in Computer Science, Northwestern
Mia Manavalan, Undergraduate in Cognitive Science, Northwestern (now at IBM)
Samantha Trippy, Undergraduate in Computer Science, Northwestern