

# Sarah D'Angelo

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RESEARCH INTERESTS	Human-Computer Interaction, Collaboration, Remote Work, Learning, Eye-Tracking, Design
EDUCATION	<p><b>Northwestern University</b>, Evanston, IL</p> <p>Ph.D. Candidate, Technology and Social Behavior 2013 - (expected) 2018</p> <ul style="list-style-type: none"><li>• Dissertation Topic: “Contextually Relevant Gaze Visualizations for Remote Collaboration”</li><li>• Committee: Darren Gergle (co-advisor), Michael Horn (co-advisor), Anne Marie Piper and Pierre Dillenbourg</li></ul> <p><b>University of California, San Diego</b>, 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"><li>• Honors Thesis Advisors: Jim Hollan and Anne Marie Piper</li></ul>
FELLOWSHIPS & GRANTS	<p>Google PhD Fellowship in Human Computer Interaction (HCI) 2017-2018</p> <p>National Science Foundation Graduate Research Fellowship (GRFP) 2013-2016</p> <p>NSF Temporal Dynamics of Learning Center Trainee Fellowship 2012-2013</p> <p>Northwestern Graduate Research Grant and Ignition Grant (\$4,600) 2017</p> <p>Dr. Scholl Foundation Grant (\$10,000) 2014</p>
RESEARCH EXPERIENCE	<p><b>Collaborative Technology Lab, Northwestern</b> 2013-Present <i>Research Assistant</i> Design and conduct dual eye tracking experiments to understand coordination in remote collaborative work. <i>Advised by:</i> Darren Gergle</p> <p><b>Tangible Interaction Design and Learning Lab, Northwestern</b> 2013-Present <i>Research Assistant</i> Develop collaborative educational games to teach children about sustainability in informal learning environments. <i>Advised by:</i> Michael Horn</p> <p><b>NeXus Group, Microsoft Research</b> Summer 2017 <i>Research Intern</i> Designed and evaluated applications for live streaming and integrating audio reactions with videos. <i>Advised by:</i> Kori Inkpen</p> <p><b>VIBE Group, Microsoft Research</b> Summer 2016 <i>Research Intern</i> Designed and evaluated a novel gaze visualization to support effective communication between remote pair programmers. <i>Advised by:</i> Andrew Begel</p> <p><b>Computer Human Interaction in Learning and Instruction, EPFL</b> Fall 2015 <i>Research Assistant</i> Designed and conducted an experiment to evaluate visual augmentations (e.g. gaze visualizations) for MOOC style video lectures. <i>Advised by:</i> Pierre Dillenbourg</p>
PUBLICATIONS	<p><b>D’Angelo, S.</b> and Gergle, D. An Eye for Design: Gaze Visualizations for Remote Collaborative Work. <i>Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI)</i> 2018</p> <p><b>D’Angelo, S.</b>, 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 <b>Best Paper Honorable Mention Award (Top 5% of Papers)</b></p>

Sharma, K., **D'Angelo, S.**, Gergle, D., Dillenbourg, P. Visual Augmentation of Deictic Gestures in MOOC videos. *International Conference of Learning Sciences (ICLS)* 2016

**D'Angelo, S.** and Gergle, D. Gazed and Confused: Understanding and Designing Shared Gaze for Remote Collaboration. *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI)* 2016

**D'Angelo, S.**, Pollock, D.H., Horn, M.S. Fishing with Friends: Using tabletop games to raise environmental awareness in aquariums. *Proceedings of Interaction Design and Children (IDC)* 2015

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 &  
SYMPOSIA

Sharma, K., Jermann, J., Dillenbourg, P., Rau, M., Pardos, Z., Schneider, B., **D'Angelo, S.**, Gergle, D., Prieto, L., and Rummel, N. "CSCL and Eye-tracking: Experiences, Opportunities and Challenges" *The 12th International Conference on Computer Supported Collaborative Learning (CSCL)* 2017

**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

Yao, N., Brewer, J., **D'Angelo, S.**, Horn, M., Gergle, D. "Visualizing Gaze Information from Multiple Students to Support Remote Instruction and Learning" *Extended Abstracts of the SIGCHI Conference on Human Factors in Computing Systems (CHI)* 2018

Brewer, J., **D'Angelo, S.**, Gergle, D. "Iris: Gaze Visualization Design Made Easy" *Extended Abstracts of the SIGCHI Conference on Human Factors in Computing Systems (CHI)* 2018 (Demo)

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

*Co-Instructor*, Human Computer Interaction (CIS 330), NU

Winter 2018

*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. *Advised by:* Jim Hollan & Anne Marie Piper

**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. *Advised by:* Leanne Chukoskie

**Rayner Eye-Tracking Lab, UCSD**     **2010-2013**  
*Research Assistant* Conducted eye-tracking experiments to understand eye movements during reading and comprehension. *Advised by:* Keith Rayner

OUTREACH, ORGANIZATIONS, AND MEMBERSHIPS

- Association for Computing Machinery (ACM) - *Reviewer:* CHI, CSCW, IDC, TEI, DIS, ETRA 2013-Present
- Northwestern Women in Computing (WiC) 2013-Present
- PC Member, ACM CHI Late Breaking Work 2018
- CIS Major Advisory Board Member, NU School of Professional Studies Winter 2017
- Audience Research and Evaluation, John G Shedd Aquarium 2014-2015
- Visitor Studies, Peggy Notebaert Nature Museum 2014-2015
- Data Analyst, Workplace Technologies Research Inc 2012-2013
- UC San Diego Women in Computing (WiC) 2012-2013
- Orientation Leader, Warren College, UC San Diego 2011

STUDENTS MENTORED

Jeff Brewer, Undergraduate in Computer Science, Northwestern  
 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