NATHANIEL STEELE DENNLER

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EDUCATION

 ${\bf QuikOrder}$

 $Quality\ Assurance\ Intern$

Ph.D. in Computer Science University of Southern California (USC)	August 2019 - Present
Advisors: Maja Matarić and Stefanos Nikolaidis B.S. in Computer Science and Robotics Engineering Worcester Polytechnic Institute (WPI) Advisors: Charles Rich, Loris Fichera, and Cagdas Onal	May 2019
RESEARCH EXPERIENCE	
Interaction and ICAROS Lab (USC) Ph.D. Candidate	August 2019 - Present Los Angeles, CA
MIT Lincoln Labs Major Qualifying Project (WPI)	August 2018 - November 2018 $Lexington,\ MA$
Interaction Lab (USC) Summer Research Assistant	May 2018 - August 2018 Los Angeles, CA
ASSISTments Lab (WPI) Interactive Qualifying Project (WPI)	August 2017 - May 2018 $Worcester, MA$
TEACHING EXPERIENCE	
CSCI 445: Robotics Teaching Assistant	August 2021 - December 2021 USC
RBE 3002: Unified Robotics IV Teaching Assistant	August 2018 - May 2019 WPI
RBE 3001: Unified Robotics III Teaching Assistant	August 2018 - May 2019 WPI
FIRST Global Challenge Team Jordan Mentor	November 2016 - July 2017 WPI
WORK EXPERIENCE	
iRobot, inc. Navigation Systems Intern	May 2019 - August 2019 Bedford, MA
WPI Information Technology Service Desk Specialist	March 2017 - May 2018 $$W\!PI$$
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May 2017 - August 2017

Frisco, TX

PUBLICATIONS

- 1. <u>N. Dennler</u>, Changxiao Ruan, Jessica Hadiwijoyo, Brenna Chen, S. Nikolaidis, M. Matarić. "Using Design Metaphors to Understand User Expectations of Socially Interactive Robot Embodiments." Transactions on Human-Robot Interaction (T-HRI). *Under Review*.
- 2. N. Dennler, E. Shin., M. Matarić, S. Nikolaidis. "Design and Evaluation of a Hair Combing System Using a General-Purpose Robotic Arm." 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2021).
- 3. <u>N. Dennler</u>, C. Yunis, J. Realmuto, T. Sanger, S. Nikolaidis, M. Matarić. "Personalizing User Engagement Dynamics in a Non-Verbal Communication Game for Cerebral Palsy." 2021 30th IEEE International Conference on Robot Human Interactive Communication (RO-MAN).

PRESENTATIONS

- 1. "Personalization for Human-Robot Interaction in Physical Therapy," presented at USC 2021 in Los Angeles, CA, November 2021.
- 2. "Robot-Assisted Hair-Brushing," presented at NeurIPS 2019 in Vancouver, Canada, December 2019.
- 3. "Expression Salience of Socially Assistive Robotics," presented at the Nation Science Foundation Engineering and Education Centers Conference in Alexandria, Virginia, October 2019.
- 4. "Mobile Manipulation through Tactile Sensing," presented at MIT Lincoln Labs in Lexington, MA, October 2018.
- 5. "Expression Salience of Socially Assistive Robotics," presented at the Southern California REU Conference at the Institute for Creative Technologies in Los Angeles, CA, July 2018.

PROFESSIONAL SOCIETIES

Upsilon Pi Epsilon (Computer Science), WPI
Tau Beta Pi (Engineering), WPI
Rho Beta Epsilon (Robotics Engineering), WPI
Association for Computing Machinery, WPI

AWARDS

Salisbury Award Recipient, Worcester Polytechnic Institute, April 2019

NSF Graduate Research Fellow, National Science Foundation, April 2019

Program of the Year (Merit Badge University), WPI, April 2019

Distinguished Service Key (Alpha Phi Omega), WPI, April 2019

USC Annenberg Fellow, University of Southern California, February 2019

U.S. Novice Challenge Skate Pairs Champion, USFSA, October 2017

Charles O. Thompson Scholar Award Recipient, WPI, March 2016

AP Scholar with Distinction, College Board, July 2014 - July 2015

National Chemistry Olympiad Semi-Finalist, USNCO, April 2015

U.S. National Silver Medalist in Intermediate Pairs Figure Skating, USFSA, January 2015