

NATHANIEL STEELE DENNLER

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EDUCATION

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| Ph.D. in Computer Science University of Southern California (USC) <i>Advisors: Maja Matarić and Stefanos Nikolaidis</i> | August 2019 - Present |
| B.S. in Computer Science and Robotics Engineering Worcester Polytechnic Institute (WPI) <i>Advisors: Charles Rich, Loris Fichera, and Cagdas Onal</i> | May 2019 |

RESEARCH EXPERIENCE

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|---|---|
| MIT Lincoln Labs <i>Major Qualifying Project (WPI)</i> | August 2018 - November 2018 <i>Lexington, MA</i> |
| Interaction Lab (University of Southern California) <i>Summer Research Assistant</i> | May 2018 - August 2018 <i>Los Angeles, CA</i> |
| ASSISTments Lab (Worcester Polytechnic Institute) <i>Interactive Qualifying Project (WPI)</i> | August 2017 - May 2018 <i>Worcester, MA</i> |

TEACHING EXPERIENCE

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| Robotics <i>Teaching Assistant</i> | August 2021 - December 2021 <i>USC</i> |
| Unified Robotics IV <i>Teaching Assistant</i> | August 2018 - May 2019 <i>WPI</i> |
| Unified Robotics III <i>Teaching Assistant</i> | August 2018 - May 2019 <i>WPI</i> |
| FIRST Global Challenge <i>Team Jordan Mentor</i> | November 2016 - July 2017 <i>WPI</i> |

WORK EXPERIENCE

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| iRobot, inc. <i>Navigation Systems Intern</i> | May 2019 - August 2019 <i>Bedford, MA</i> |
| WPI Information Technology <i>Service Desk Specialist</i> | March 2017 - May 2018 <i>WPI</i> |
| QuikOrder <i>Quality Assurance Intern</i> | May 2017 - August 2017 <i>Frisco, TX</i> |

PUBLICATIONS

1. Dennler, N., Shin, E., Matarić, M., Nikolaidis, S. (2021). 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).

2. Dennler, Nathaniel, Eura Shin, Maja Matarić, and Stefanos Nikolaidis. "Design and Evaluation of a Hair Combing System Using a General-Purpose Robotic Arm." 2021 30th IEEE International Conference on Robot Human Interactive Communication (RO-MAN).
3. Dennler, N. S. (2018). Implications of Self-Determination Theory on Student Performance (Undergraduate Interactive Qualifying Project No. E-project-052518-150127). Retrieved from Worcester Polytechnic Institute Electronic Projects Collection: <http://www.wpi.edu/Pubs/E-project/Available/E-project-052518-150127>

PRESENTATIONS

1. "Robot-Assisted Hair-Brushing," presented at NeurIPS 2019 in Vancouver, Canada, December 2019.
2. "Expression Salience of Socially Assistive Robotics," presented at the Nation Science Foundation Engineering and Education Centers Conference in Alexandria, Virginia, October 2019.
3. "Mobile Manipulation through Tactile Sensing," presented at MIT Lincoln Labs in Lexington, MA, October 2018.
4. "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