

BENJAMIN A. NEWMAN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

September 2016 – Present

Doctor of Philosophy in Robotics (in progress)

Robotics Institute

School of Computer Science

Indiana University, Bloomington, IN

May 2016

Bachelor of Science in Computer Science, Highest Honors

Bachelor of Science in Cognitive Science, Highest Honors

Minor in Mathematics

AWARDS AND HONORS

Quality of Life Technology Fellowship

Fall 2018

National Science Foundation Graduate Research Fellow

2016 – Present

IU College of Arts and Sciences General Scholarship Endowment

2015

IU School of Informatics and Computing Deans Advisory Council Scholarship

2015

IU Hutton Honors College Research Grant

2015

PUBLICATIONS

Peer-Reviewed Journal Papers

[J2] **Helping People Through Space and Time: Assistance as a Perspective on Human-Robot Interaction.** Benjamin A. Newman, Reuben Aronson, Kris Kitani, and Henny Admoni. *Frontiers in Robotics and AI: Rising Stars in Human-Robot Interaction*, November 2021

[J1] **HARMONIC: A Multimodal Dataset of Assistive Human-Robot Collaboration.** Benjamin A. Newman, Reuben M. Aronson, Siddhartha S. Srinivasa, Kris Kitani, Henny Admoni. *The International Journal of Robotics Research (IJRR)*, July 2021

Peer-Reviewed Conference Papers

[C2] **Anticipatory Robot Motion Affects Human Decision-Making.** Benjamin A. Newman, Abhijat Biswas, Sarthak Ahuja, Siddarth Girdhar, Kris Kitani and Henny Admoni. *The Twelfth International Conference on Social Robotics (ICSR)*, November 2020

[C1] **Global and Local Statistical Regularities Control Visual Attention to Object Sequences.** Alexa Romberg, Yayun Zhang, Benjamin A. Newman, Johann Triesch and Chen Yu. *Joint IEEE International Conference on Development and Learning and Epigenetic Robotics. (ICDL-EpiRob)*, September 2016

Peer-Reviewed Workshop Papers

[W1] **In-Sight: Tension-Based Haptic Feedback to Improve Navigation for People who are Blind.** Alexander Baikovitz, Jonathan Duffy, Zachary Sussman, Benjamin A. Newman, Henny Admoni. *Workshop on Hacking Blind Navigation at The Conference on Human Factors in Computing Systems (CHI)*, May 2019

In Preparation

[P2] **Visual Assistance for Object-Rearrangement Tasks in Augmented Reality.** Benjamin A. Newman, Kevin Carlberg and Ruta Desai.

[P1] **Hand-Eye Coordination Primitives for Assistive Robotic Co-Manipulation.** Benjamin A. Newman, Kris Kitani and Henny Admoni.

TEACHING

16-881: Deep Reinforcement Learning for Robotics (graduate) *Spring 2019*
Graduate Teaching Assistant
Carnegie Mellon University

16-467: Human-Robot Interaction (undergraduate) *Spring 2018*
Graduate Teaching Assistant
Carnegie Mellon University

COGS-Q350: Math & Logic for Cognitive Science (undergraduate) *Fall 2014*
Undergraduate Teaching Instructor
Indiana University

CSCI-C211: Introduction to Computer Science (undergraduate) *Spring 2014*
Undergraduate Teaching Instructor
Indiana University

CSCI-C211: Introduction to Computer Science (undergraduate) *Fall 2013*
Undergraduate Teaching Instructor
Indiana University

INTERNSHIP EXPERIENCE

Facebook Reality Labs *Spring–Summer 2020*
PhD Intern *Seattle, WA*

SERVICE

Refereeing: Conferences and Journals

International Conference on Social Robotics (ICSR)	2020
ACM Conference on Human Factors in Computing Systems (CHI)	2019
ACM Transactions on Human-Robot Interaction (THRI)	2018, 2019, 2021
ACM/IEEE International Conference on Human-Robot Interaction (HRI)	2017, 2018, 2019

Admissions Committee Member

Carnegie Mellon University Masters of Science in Computer Vision *2018, 2019*