EDUCATION		
Ph.D. Computer Science	University of Washington, Seattle, WA	2018-25
 Advised by Maya Cakmak 		
M.S. Computer Science	University of Washington, Seattle, WA	2018-20
B.S.A. Computer Science	The University of Texas, Austin, TX	2014-18
• Research advisors Peter Stone,	Matteo Leonetti, Jivko Sinapov, Justin Hart	
• Polymathic Scholar (Interdisci	iplinary Honors)	
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PUBLICATIONS

Thesis

[t1] "Making Robot Behaviors Automatically Transparent." N. Walker. The University of Washington. Mar. 2025

Conference

[c12]	"I Can Tell What I Am Doing: Toward Real-World Natural Language Grounding of Robot
	Experiences." Z. Wang, B. Liang, V. Dhat, Z. Brumbaugh, N. Walker, R. Krishna, M. Cakmak.
	Proc. of The 8th Conf. Robot Learning. Munich, Germany, Nov. 2024

- [c11] "Fast Explicit-Input Assistance for Teleoperation in Clutter." N. Walker, X. Yang, A. Garg, M. Cakmak, D. Fox, C. Pérez-D'Arpino. 2024 IEEE/RSJ Int. Conf. Intelligent Robots Systems. Abu Dhabi, UAE, Oct. 2024
- [c10] "Using 3D Mice to Control Robot Manipulators." V. Dhat, N. Walker, M. Cakmak. ACM/IEEE Int. Conf. Human-Robot Interaction. Boulder, CO, USA, Mar. 2024
- [c9] "Not All Who Wander Are Lost: A Localization-Free System for In-the-Wild Mobile Robot Deployments." A. Nanavati*, N. Walker*, L. Taber, C. Mavrogiannis, L. Takayama, M. Cakmak, S. Srinivasa. Proc. 2022 ACM/IEEE Int. Conf. Human-Robot Interaction. Sapporo, Hokkaido, Japan, Mar. 2022
- [c8] "Influencing Behavioral Attributions to Robot Motion During Task Execution." N. Walker, C. Mavrogiannis, S. Srinivasa, M. Cakmak. Proc. 5th Conf. Robot Learning. London, UK, Nov. 2021
- [c7] "Learning Backchanneling Behaviors for a Social Robot via Data Augmentation from Human-Human Conversations." M. Murray, N. Walker, A. Nanavati, P. Alves-Oliveira, N. Filippov, A. Sauppe, B. Mutlu, M. Cakmak. *Proc. 5th Conf. Robot Learning*. London, UK, Nov. 2021
- [c6] "Human Perceptions of a Curious Robot that Performs Off-Task Actions." N. Walker, K. Weatherwax, J. Alchin, L. Takayama, M. Cakmak. Proc. 2020 ACM/IEEE Int. Conf. Human-Robot Interaction. Oxford, UK, Mar. 2020
- [c5] "Open-World Reasoning for Service Robots." Y. Jiang*, N. Walker*, J. Hart, P. Stone. Proc. 29th Int. Conf. Automated Planning Scheduling. Berkeley, Jul. 2019
- [c4] "Improving Grounded Natural Language Understanding through Human-Robot Dialog."
 J. Thomason, A. Padmakumar, J. Sinapov, N. Walker, Y. Jiang, H. Yedidsion, J. Hart, P. Stone,
 R. J. Mooney. Int. Conf. Robotics Automation. Montreal, May 2019

Nick Walker

[c3]	"PRISM: Pose Registration for Integrated Semantic Mapping." J. W. Hart, R. Shah, S. Kirm				
	ni, <u>N. Walker</u> , K. Baldauf, N. John, P. Stone. 2018 IEEE/RSJ Int. Conf. Intelligent Robots Systems.				
	Madrid, Spain, Oct. 2018				

- [c2] "Automatic Curriculum Graph Generation for Reinforcement Learning Agents." M. Svetlik, M. Leonetti, J. Sinapov, R. Shah, <u>N. Walker</u>, P. Stone. *Proc. Thirty-First AAAI Conf. Artificial Intelligence*. San Francisco, Feb. 2017
- [c1] "Wearable ear EEG for brain interfacing." E. D. Schroeder, N. Walker, A. S. Danko. Proc. of SPIE 10051, Neural Imaging Sensing. San Francisco, Feb. 2017

Preprint

[a1] "An Architecture for Person-Following using Active Target Search." M. Kim, M. Arduengo, N. Walker, Y. Jiang, J. W. Hart, P. Stone, L. Sentis. *arXiv*:1809.08793, Sept. 2019

Journal

[j1] "Jointly Improving Parsing and Perception for Natural Language Commands through Human-Robot Dialog." J. Thomason, A. Padmakumar, J. Sinapov, N. Walker, Y. Jiang, H. Yedidsion, J. Hart, P. Stone, R. J. Mooney. Journal of Artificial Intelligence Research. Feb. 2020

Patent

[p1] "Transcription analysis platform." M. J. Szentes, C. Chavez, R. E. Lewis, <u>N. S. Walker</u>. US11837214, Dec. 2023

Refereed Symposium, Workshop

- [w6] "Can Large Language Models Help Developers with Robotic Finite State Machine Modification?" X. Gan*, Y. R. Song*, N. Walker, M. Cakmak. LangRob Workshop at Conf. Robot Learning. Munich, Germany, Nov. 2024
- [w5] "Towards robustly picking unseen objects from densely packed shelves." M. Grotz, J. Lowry, S. Atar, Y. Li, P. Torrado, B. Yang, N. Walker, M. Murray, D. Fox, M. Cakmak, J. R. Smith. Proc. RSS Workshop Perception Manipulation Challenges for Warehouse Automation. Daegu, Republic of Korea, Jul. 2023
- [w4] "Desiderata for Planning Systems in General-Purpose Service Robots." N. Walker*, Y. Jiang*, M. Cakmak, P. Stone. Proc. of 2019 ICAPS Workshop Planning Robotics. Berkeley, Jul. 2019
- [w3] "Neural Semantic Parsing with Anonymization for Command Understanding in General-Purpose Service Robots." N. Walker, Y.-T. Peng, M. Cakmak. RoboCup 2019: Robot Soccer World Cup XXIII. Sydney, Jul. 2019
- [w2] "LAAIR: A Layered Architecture for Autonomous Interactive Robots." Y. Jiang*, N. Walker*, M. Kim, N. Brissonneau, D. S. Brown, J. W. Hart, S. Niekum, L. Sentis, P. Stone. AAAI Fall Symp. Reasoning Learning in Real-World Systems for Long-Term Autonomy. Arlington, Oct. 2018
- [w1] "Interaction and Autonomy in RoboCup@Home and Building-Wide Intelligence." J. Hart,
 H. Yedidsion, Y. Jiang, N. Walker, R. Shah, J. Thomason, A. Padmakumar, R. Fernandez,
 J. Sinapov, R. Mooney, P. Stone. AAAI Fall Symp. Artificial Intelligence Human-Robot Interaction.
 Arlington, Oct. 2018

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• Learning models that help robot supervisors diagnose failures [t1] • Generating communicative motion and language during task execution [c8,c12,t1] • Perceptions of intrinsically motivated robot behaviors [c6,c8] Research Intern NVIDIA 20. Designed and evaluated teleoperation assistance for manipulation in clutter [c11] Research Engineer Intern USAA 20. • Ear-worn brain-computer interface software and hardware for biometric authentication [c1] Undergraduate Research Assistant University of Texas 20. • Long-term autonomy for service robots [w2, w4] • Mobile manipulation in homes and offices [j1,a1,w1] • Grounded natural language understanding [c5,j1] • Automated curriculum learning for reinforcement learning agents [c2] Research Engineer Intern USAA 20. • Evaluation of automated speech transcription vendors [p1] LEADERSHIP AND PROFESSIONAL SERVICE Director – Drumheller Marathon & Half Marathon 22. Director – Light Rail Relay 22. Organizer – Northwest Robotics Symposium NSF GRFP Seminar Coordinator – Allen School Graduate Student Committee, UW Organizer – Imitation Learning Workshop, RSS Organizer – Imitation Learning Workshop, RSS Technical Committee – RoboCup@Home 20. Peer Mentor – Allen School First Year Graduate Student Mentoring, UW 20. Reader – Allen School Ph.D. Admissions Committee, UW Reviewing CHI '25 THRI '25, '24, '23, '20 TAFFC '22, '21 Sci. Rob. '21 CoRL '25-'22 IROS '24, '21 RA-L '21 TCDS '20 HRI '25-'22 IROS '24, '21 RA-L '21 TCDS '20 HRI '25-'22 IROS '24, '21 RA-L '21 TCDS '20 HRI '25-'22 IROS '24, '21 RA-L '21 TCDS '20 HRI '25-'22, '21, '19 IJSR '23, '22 SSRR '21 GRANTS	RESEA	RCH EXPERIE	NCE					
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Peer Mentor – Allen School First Year Graduate Student Mentoring, UW Reader – Allen School Ph.D. Admissions Committee, UW Reviewing CHI '25 THRI '25, '24, '23, '20 TAFFC '22, '21 Sci. Rob. '21 CORL '25- '22 IROS '24, '21 RA-L '21 TCDS '20 HRI '25- '22 T-RO '24 RSS '21 ICRA '25- '23, '21, '19 IJSR '23, '22 SSRR '21 GRANTS	•		-	•				2019-2
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ICRA '25-'23, '21, '19 IJSR '23, '22 SSRR '21 GRANTS				,			1005 20	
GRANTS								
Dogumenting Covers Dagin on the University of Weshington Company	ICRA	'25-'23, '21, '19						
Documenting Geyser Basin on the University of Washington Campus 4Culture, Preservation Special Projects Grant. \$9,500. PI. A Speech and Language Dataset of GPSR Commands	Documo 4Culturo	enting Geyser Ba e, Preservation S _]	pecial Proj	jects Grant. \$9,50	o. PI.	n Campus		

RoboCup Federation, League Development Grant. \$2,200. PI.

Nick Walker 4

TEACHING EXPERIENCE

Teaching Assistant UW CSE 478 (Robotics) 2021 Sp.

• Updated assignments, developed unit tests and CI-based autograder used in 5+ offerings

Teaching Assistant UW CSE 481C (Robotics Capstone) 2019 Wi.

• Developed assignments, supported undergraduates using the Kuri robot

SKILLS

Languages – Python, C++, Javascript/HTML/CSS, Answer Set Programming Frameworks & Tools – PyTorch, ROS, Docker, Isaac Sim Digital media – Premiere, Photoshop, Illustrator, InDesign, Lightroom

RECOGNITION

Best Paper: Short Contributions – ACM/IEEE International Conference on Human-Robot Interaction			
Graduate Research Fellowship – National Science Foundation	2020-25		
Computer Science & Engineering Research Fellowship – Allen School, UW	2018-19		
Best Poster, with UT Austin Villa – RoboCup@Home DSPL	2018		
Commencement Student Speaker – College of Natural Sciences, UT	2018		
GRFP Honorable Mention – National Science Foundation	2018		
Dean's Honored Graduate – College of Natural Sciences, UT	2018		
Outstanding Undergraduate Researcher Award Honorable Mention – Computing Research Associated	iation 2018		
TIDES Fellowship – Texas Institute for Discovery Education in Science, UT	2017		
College of Natural Sciences Scholarship – College of Natural Sciences, UT	2014-18		

PERSONAL

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