

# JOHN DOE

Ph.D. Student in Computer Science

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nickwalker.us

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## EDUCATION

- 2018—      The University of Washington, Seattle, WA.
- Ph.D. Computer Science
- 2014–18      The University of Texas, Austin, TX.
- BSA Computer Science
  - Polymathic Scholar (Interdisciplinary Honors)

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## CONFERENCE

- [c2]      “Human Perceptions of a Curious Robot that Performs Off-Task Actions.” N. Walker, K. Weatherwax, J. Alchin, L. Takayama, M. Cakmak. *ACM/IEEE Int. Conf. Human-Robot Interaction*. Oxford, UK, March 2020
- [c1]      “Open-World Reasoning for Service Robots.” Y. Jiang, N. Walker, J. Hart, P. Stone. *Proc. 29th Int. Conf. Automated Planning Scheduling*. Berkeley, July 2019

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## 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*. February 2020

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## REFEREED SYMPOSIUM, WORKSHOP

- [w2]      “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, July 2019
- [w1]      “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, July 2019

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## PRESENTATIONS

- 2019      Human Perceptions of a Curious Robot that Performs Off-Task Actions. N. Walker. Honda Research Institute Curious Minded Machines Workshop. San Jose. Oral.
- 2019      Desiderata for Planning for Planning Systems in General Purpose Service Robots. N. Walker. ICAPS PlanRob Workshop. Berkeley. Oral.
- 2019      Neural Semantic Parsing with Anonymization for Command Understanding in General Purpose Service Robots. N. Walker. RoboCup Symposium. Sydney. Oral.
- 2018      UT Austin Villa@Home. N. Walker for UT Austin Villa. RoboCup@Home Domestic Standard Platform League. Sydney. Oral. **Best DSPL Poster.**

2017 Automatic Curriculum Graph Generation for Reinforcement Learning Agents. N. Walker, R. Shah. AAAI. San Francisco. Poster.

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**RECOGNITION**

2020— Graduate Research Fellowship – *National Science Foundation*  
2018–19 Computer Science & Engineering Research Fellowship – *Allen School, UW*

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**RESEARCH COMPETITIONS**

2018 5th Place, UT Austin Villa@Home – *RoboCup@Home DSPL*  
2017 3rd Place, UT Austin Villa@Home – *RoboCup@Home DSPL*

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**RESEARCH AFFILIATIONS**

2018— Human-Centered Robotics Lab – *University of Washington*  
• PI: Maya Cakmak  
2017–18 UT Austin Villa@Home – *University of Texas at Austin*  
• PIs: P. Stone, L. Sentis, S. Niekum, A. Thomaz, R. Mooney. Supervisor: Justin Hart  
2015–18 Building-Wide Intelligence Project – *UT AI Lab*  
• PI: Peter Stone. Supervisors: Matteo Leonetti, Jivko Sinapov, Justin Hart

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**OUTREACH**

2019 Demo Assistant – *UW Engineering Discovery Days*  
• Organized and helped run an exhibit demonstrating our lab's research  
2019 Program Assistant – *UTCS Robotics Camp*  
• Helped high school students assemble robot kit, program intelligent behaviors

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**SERVICE**

2019— Technical Committee – *RoboCup@Home*  
2019— Peer Mentor – *Allen School First Year Graduate Student Mentoring, UW*

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**GRANTS RECEIVED**

2020 A Speech and Language Dataset of GPSR Commands (League Development Grant) – *RoboCup Federation*

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**MEETING PARTICIPATION**

2019 Honda Research Institute Curious Minded Machine Workshop, San Jose  
2019 ICAPS, Berkeley  
2019 RoboCup, Sydney

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**WORK AND TEACHING EXPERIENCE**

Winter 2019 Teaching Assistant – *UW CSE 481C*

- Developed assignments and supported undergraduates using the Kuri robot for their robotics capstone course

Summer 2016 Research Engineer Intern – *USAA*

- Developed experimental brain-computer interface software and hardware
- Work contributed to a SPIE conference publication

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**SKILLS**

- Experienced with robotics software – *ROS, C++, Python*
- Proficient with web technologies – *PHP, Typescript, HTML, CSS*

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**PERSONAL**

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[github.com/nickswalker](https://github.com/nickswalker)