Peter Herald Stone

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RESEARCH STATEMENT

I am a computer scientist with research specialization in artificial intelligence. My long-term research goal is to create complete, robust, autonomous agents that can *learn to interact* with other intelligent agents in a wide range of complex, dynamic environments. These agents must sense their environment; engage in high-level cognitive decision-making; and then execute their actions in the environment. Moreover, to be effective, they should improve their performance automatically over time and reason explicitly about the behaviors of other agents, including teammates and adversaries. Thus, my research contributions are mainly in the areas of machine learning; autonomous agents and multiagent systems; and robotics. Application domains have included robot soccer, autonomous bidding agents, intelligent traffic management, general-purpose service robots, and autonomous vehicles.

PROFESSIONAL PREPARATION

- **Carnegie Mellon University**, Pittsburgh, PA
  Ph.D., Computer Science, December 1998.
  Dissertation: *Layered Learning in Multi-Agent Systems*.
  Thesis committee: Manuela Veloso (chair), Andrew Moore, Herbert Simon, Victor Lesser.
  M.S., Computer Science, December 1995.
- **The University of Chicago**, Chicago, IL
  B.S., Mathematics with honors and a concentration in Computer Science, June 1993.

APPOINTMENTS

- **The University of Texas at Austin**, September 2022 – Present.
  Truchard Foundation Chair in Computer Science.
- **The University of Texas at Austin**, September 2017 – Present.
  Director of Texas Robotics.
- **The University of Texas at Austin**, September 2015 – Present.
  Associate Chair of the Department of Computer Science.
- **The University of Texas at Austin**, September 2014 – August 2022.
  David Bruton, Jr. Centennial Professor in the Department of Computer Science.
- **Sony AI America**, November 2020 – Present.
  Executive Director.
- **Sony Corporation of America**, November 2020 – Present.
  Senior Vice President.
- **The University of Texas at Austin**, September 2012 – August 2014.
  Professor in the Department of Computer Science and Center for Perceptual Systems.
- **Cogitai, Inc.**, September 2015 – November 2020.
  President, COO, and co-Founder. Acquired by Sony.
- **The University of Texas at Austin**, September 2007 – August 2012.
  Associate Professor in the Department of Computer Science and Center for Perceptual Systems.
- **The Hebrew University of Jerusalem** and **Bar Ilan University**, September 2008 – June 2009.
  Visiting Professor in the Computer Science Departments.
- **The University of Texas at Austin**, June 2002 – August 2007.
  Assistant Professor in the Department of Computer Sciences and Center for Perceptual Systems.
- **RobotsLab**, September 2012 – December 2015.
  Consultant. Helped design educational robotics curriculum.

- **SAIC**, then **Leidos** April 2013 – May 2014.
  Consultant. Worked on DARPA project pertaining to reinforcement learning.
- **Sidley Austin LLP**, May – July 2009.
  Consultant. Patent infringement case expert.
- **Corporation for National Research Initiatives (CNRI)**, May – September 2002.
  Consultant. Developed possibilities for future DARPA programs pertaining to multiagent systems.
- **New York University**, September 2001 – January 2002.
  Adjunct Professor in the Computer Science Department.
- **AT&T Labs — Research**, September 1999 – March 2002.
  Senior Researcher in the Artificial Intelligence Department.
- **Carnegie Mellon University**, January 1999 – August 1999.
  Postdoctoral Fellow in the Computer Science Department.
- **Perspectives, Inc.**, April 1998 – March 1999.
  Consultant. Created a comprehensive report on the state of the art in multiagent systems.
- **Carnegie Mellon University**, August 1993 – December 1998.
  Graduate Research Assistant. Created a framework by which multiple intelligent agents can learn to act both individually and in coordination with one another in real-time, noisy, collaborative, and adversarial environments. Developed a flexible commitment strategy for interleaving planning and execution in the PRODIGY planner.
- **NASA Jet Propulsion Laboratory**, May – August 1995.
  Summer intern. Worked on automatic planning and scheduling for the New Millennium Project.

AWARDS AND RESEARCH DISTINCTIONS

- **Sony Research CEO Award**, 2023.
- **ACM SIGAI Industry Award for Excellence in Artificial Intelligence**, July 2022.
- **Sony AI CEO Award**, 2022.
- **Sony Technology Award**, 2022.
- **Best Paper Award**, AAMAS workshop on Adaptive Learning Agents (ALA), May 2022.
- Elected **ACM Fellow** by the Association for Computing Machinery, 2021.
- Named **AAIA Fellow** by the Asia-Pacific Artificial Intelligence Association, 2021.
- IFAAMAS **Influential Paper Award**, 2020.
- Elected **AAAS Fellow** by the American Association for the Advancement of Science, 2019.
- **Minnie Stevens Piper Professorship**, in recoginition of superior teaching at the college level, 2019.
- Elected **IEEE Fellow** by the Institute of Electrical and Electronics Engineers, 2018.
- **Best Robotics Track Paper**, International Conference on Autonomous Agents and Multiagent Systems (AAMAS), July 2018.
- ACM/SIGAI **Autonomous Agents Research Award**, 2016.
- College of Natural Sciences **Teaching Excellence Award**, 2015.
- **Outstanding Paper Award**, Computational Sustainability Track, International Joint Conference on Artificial Intelligence (IJCAI), July 2015.
- Elected to UT Austin **Academy of Distinguished Teachers**, 2014.
- **World Champion** team member in 16 **RoboCup** events: 3D simulator competition, June 2021; July 2019; July 2018; July 2017, July 2016, July 2015, July 2014, June 2012, July 2011; standard platform competition, June 2012; simulator coach competition, July 2005, July 2003; simulator competition, August 1999, July 1998; small-size robot competitions, July 1998, August 1997.
- RoboCup **US Open Champion** team leader, standard platform league, April 2018; April 2017, April 2016, April 2012, May 2010, May 2009.
- **Best Contribution Award** at NIPS workshop on Machine Learning for Sustainability (MLSUST), December 2013.
- **Best Paper Award**, International Conference on Social Robotics (ICSR), October 2013.
- The University of Texas System **Regents' Outstanding Teaching Award**, 2013.
- Leader of **1st-place** teams in the **Trading Agent Competition** (TAC), July 2013; July 2011; June 2010; July 2009; July 2008; May 2006; August 2005; August 2003; October 2001; July 2000.
- Elected **AAAI Fellow** by the Association for the Advancement of Artificial Intelligence, 2012.

- **Google Faculty Research Award**, 2012.
- **Yahoo! Faculty Research and Engagement** (FREP) award, 2011.
- Elected **Board Member**, International Machine Learning Society (IMLS), March 2011–2015.
- Advisor to Winner of UT Austin's **Best Dissertation Award** (Kurt Dresner), May 2010.
- **Best Student Paper Award**, International Conference on Autonomous Agents and Multiagent Systems (AAMAS), May 2010.
- **Best Student Paper Award**, RoboCup Symposium, July 2009.
- **William David Blunk Memorial Professorship**, in recognition of undergraduate teaching, 2008–09.
- **Fulbright Award**, 2008–09.
- **Guggenheim Fellow**, 2008–09.
- Elected **Board Member**, International Foundation of Autonomous Agents and Multi-Agent Systems (IFAAMAS), 2008–14.
- Austin Business Journal **Tech Innovation Award**, November 2007.
- **Best Paper Award**, RoboCup Symposium, July 2007.

- **IJCAI Computers and Thought Award**, January 2007: *highest award in Artificial Intelligence*.

- **Best Paper Award**, Genetic and Evolutionary Computation Conference, GA Track, July 2006.
- **Best Student Paper Award**, RoboCup Symposium, June 2006.
- Elected **Councilor**, Association for the Advancement of AI (AAAI), July 2005–2008.
- **Alfred P. Sloan Research Fellow**, September 2004 – 2006.
- **Office of Naval Research (ONR) Young Investigator**, June 2004 – May 2007.
- **IBM Faculty Award**, 2005, 2004, 2003.
- National Science Foundation **CAREER Award**, February 2003 – January 2008.
- **Best Paper Award**, Autonomous Agents Conference, May 2001.
- AT&T Labs — **Research Innovator**, 2000.
- **NASA Graduate Student Research Program Fellowship**, 1997 – 1999.
- **Allen Newell Medal for Research Excellence**, August 1997.
- **NASA Certificate of Recognition** for the creative development of a technical innovation entitled "DCAPS Iterative Repair Planning and Scheduling System," June 1997.
- **Pennsylvania Space Grant Consortium** fellowship, 1996.
- **Hertz Foundation Research Fellowship Grant**, 1995. (note: not the Hertz Graduate Fellowship)
- **National Science Foundation** honorable mention, 1993, 1994.
- **Undergraduate Research Stipend** – Florida State University, June – August 1992.
- **State Farm Exceptional Student Fellowship**, June 1992.
- **The University of Chicago : Phi Beta Kappa**, **Sigma Xi**, **Dean's List** every year, **College Honor Scholarship**: merit-based 4-yr, full-tuition scholarship, **National Merit Scholarship**, **Maroon Key Society**, **Student Marshall**, **Scholar-Athlete Award**: 4-yr varsity letterman with highest GPA.

TEACHING

- **Professor** at **The University of Texas at Austin**: September 2012 – present.
  CS 394R *Reinforcement Learning: Theory and Practice — online.* Autumn 2023.
  CS 109 *The Essentials of AI for Life and Society.* Autumn 2023.
  CS 394R *Reinforcement Learning: Theory and Practice — online.* Autumn 2022.
  CS 395T *Introduction to Ethical Artificial Intelligence and Robotics.* Autumn 2022. rating: 4.9/5.0
  CS 394R *Reinforcement Learning: Theory and Practice.* Spring 2022. Instructor rating: 4.4/5.0
  CS 394R *Reinforcement Learning: Theory and Practice — online.* Spring 2021. rating: 4.3/5.0
  CS 343 *Artificial Intelligence* Spring 2021. Instructor rating: 4.2/5.0
  CS 394R *Reinforcement Learning: Theory and Practice — online.* Summer 2020. rating: 4.1/5.0
  CS 394R *Reinforcement Learning: Theory and Practice — online.* Spring 2020. rating: 4.8/5.0
  CS 394R *Reinforcement Learning: Theory and Practice.* Autumn 2019. Instructor rating: 4.5/5.0
  CS 393R *Autonomous Robots.* Autumn 2018. Instructor rating: 4.8/5.0
  CS 343H *Artificial Intelligence: Honors.* Autumn 2017. Instructor rating: 4.5/5.0
  CS 394R *Reinforcement Learning: Theory and Practice.* Autumn 2016. Instructor rating: 4.8/5.0

CS 393R *Autonomous Robots.* Autumn 2015. Instructor rating: 4.7/5.0
CS 343H *Artificial Intelligence: Honors.* Spring 2015. Instructor rating: 4.4/5.0
CS 393R *Autonomous Robots.* Autumn 2013. Instructor rating: 4.9/5.0
CS 311H *Discrete Math for Computer Science: Honors.* Autumn 2013. Instructor rating: 4.4/5.0
CS 394R *Reinforcement Learning: Theory and Practice.* Spring 2013. Instructor rating: 5.0/5.0
CS 313H *Logic, Sets, and Functions: Honors.* Autumn 2012. Instructor rating: 4.6/5.0

- **Associate Professor** at **The University of Texas at Austin**: September 2007 – August 2012.
  CS 343 *Artificial Intelligence.* Spring 2012. Instructor rating: 5.0/5.0
  CS 393R *Autonomous Robots.* Autumn 2011. Instructor rating: 4.9/5.0
  CS 394R *Reinforcement Learning: Theory and Practice.* Spring 2011. Instructor rating: 4.8/5.0
  CS 344M *Autonomous Multiagent Systems.* Autumn 2010. Instructor rating: 4.8/5.0
  CS 343 *Artificial Intelligence.* Spring 2010. Instructor rating: 4.7/5.0
  CS 393R *Autonomous Robots.* Autumn 2009. Instructor rating: 4.9/5.0
  CS 344M *Autonomous Multiagent Systems.* Spring 2008. Instructor rating: 4.9/5.0
  CS 394R *Reinforcement Learning: Theory and Practice.* Autumn 2007. Instructor rating: 4.9/5.0
- **Assistant Professor** at **The University of Texas at Austin**: June 2002 – August 2007.
  CS 378 *Autonomous Vehicles — Driving in Traffic.* Spring 2007. Instructor rating: 4.7/5.0
  CS 395T *Agent-Based Electronic Commerce.* Autumn 2006. Instructor rating: 4.9/5.0
  CS 378 *Autonomous Multiagent Systems.* Spring 2006. Instructor rating: 4.8/5.0
  CS 395T *Autonomous Robots.* Autumn 2005. Instructor rating: 4.7/5.0
  CS 378 *Autonomous Multiagent Systems.* Spring 2005. Instructor rating: 4.9/5.0
  CS 395T *Reinforcement Learning: Theory and Practice.* Autumn 2004. Instructor rating: 4.7/5.0
  CS 378 *Autonomous Multiagent Systems.* Spring 2004. Instructor rating: 4.8/5.0
  CS 395T *Agent-Based Electronic Commerce.* Autumn 2003. Instructor rating: 4.6/5.0
  CS 395T *Multi-Robot Systems.* Spring 2003. Instructor rating: 4.3/5.0
  CS 378 *Autonomous Multiagent Systems.* Autumn 2002. Instructor rating: 4.9/5.0
- **Adjunct Professor** at **New York University**: September 2001 – January 2002.
  Graduate class *Autonomous Multiagent Systems.* Autumn 2001. Instructor rating: 4.6/5.0
- **Tutorial** on *learning motion control for mobile robot navigation* at ICRA-22, May 2022.
- **Tutorial** on *multiagent learning: foundations and recent trends* at IJCAI-17, August 2017.
- **Tutorials** on *autonomous bidding agents* at AAMAS-07 and AAAI-07, May – July 2007.
- **Tutorials** on *robot soccer* at AAAI-99, Agents-99, and IJCAI-99, May – August 1999.
- **Teaching Assistant**, *How to Think Like a Computer Scientist* with Prof. Steven Rudich. Spring 1996.
- **Teaching Assistant**, *Introduction to Artificial Intelligence* with Prof. Jaime Carbonell. Spring 1995.
- **College Mathematics Tutor** at the University of Chicago. 1992-93.
- **Private Violin Teacher** in Buffalo, NY. Taught 40 students individually. August 1989-August 1991.

THESIS COMMITTEES

- **Doctoral Committee Supervisor:** (The University of Texas at Austin)
  - Ishan Durugkar, defended March 2023.
    Estimation and Control of Visitation Distributions for Reinforcement Learning.
  - Faraz Torabi, defended April 2021.
    Imitation Learning from Observation.
  - Sanmit Narvekar, defended December 2020.
    Curriculum Learning in Reinforcement Learning.
  - Josiah Hanna, defended August 2019.
    Data Efficient Reinforcement Learning with Off-policy and Simulated Data.
  - Elad Liebman, defended February 2019.
    Sequential Decision Making in Musical Intelligence.
  - Patrick MacAlpine, defended July 2017.
    Multilayered Skill Learning and Movement Coordination for Autonomous Robotic Agents.
    UT Austin Computer Science Bert Kay Outstanding Dissertation Award.
  - Katie Genter, defended June 2017.
    Fly with Me: Algorithms and Methods for Influencing a Flock.

  - Piyush Khandelwal, defended May 2017.
    On-Demand Coordination of Multiple Service Robots.
  - Matthew Hausknecht, defended November 2016.
    Cooperation and Communication in Multiagent Deep Reinforcement Learning.
  - Daniel Urieli, defended November 2015.
    Autonomous Trading in Modern Electricity Markets.
  - Samuel Barrett, defended October 2014.
    Making Friends on the Fly: Advances in Ad Hoc Teamwork.
  - Todd Hester, defended December 2012.
    TEXPLORE: Temporal Difference RL for Robots and Time-Constrained Domains.
  - W. Bradley Knox, defended August 2012.
    Learning from Human-Generated Reward.
    UT Austin Computer Science Bert Kay Outstanding Dissertation Award.
  - Doran Chakraborty, defended August 2012.
    Sample Efficient Multiagent Learning in the Presence of Markovian Agents.
  - Juhyun Lee, defended November 2011.
    Robust Color-based Vision for Mobile Robots.
  - Shivaram Kalyanakrishnan, defended November 2011.
    Learning Methods for Sequential Decision Making with Imperfect Representations.
  - David Pardoe, defended April 2010.
    Adaptive Trading Agent Strategies Using Market Experience.
  - Nicholas K. Jong, defended December 2010.
    Structured Exploration for Reinforcement Learning.
  - Gregory Kuhlmann, defended August 2010.
    Automated Domain Analysis for General Game Playing.
  - Kurt Dresner, defended October 2009.
    Autonomous Intersection Management.
    UT Austin Outstanding Dissertation Award.
  - Matthew E. Taylor, defended June 2008.
    Autonomous Inter-Task Transfer in Reinforcement Learning Domains.
  - Daniel Stronger, defended June 2008.
    Autonomous Sensor and Action Model Learning for Mobile Robots.
  - Shimon Whiteson, defended April 2007.
    Adaptive Representations for Reinforcement Learning.
  - Mohan Sridharan, defended April 2007.
    Robust Structure-Based Autonomous Color Learning on a Mobile Robot.

- **Doctoral Committee Member:** (The University of Texas at Austin)
  - Dian Chen, Computer Science. Supervisor: Philipp Kräehenbühl.
    Towards Richly Supervised Autonomous Driving Policies,
    defended July 2023.
  - Keya Rajesh Ghonasgi, Mechanical Engineering. Supervisor: Ashish Deshpande.
    Practice Makes Perfect: Leveraging Exoskeleton Interactions To Elucidate The Motor Learning Process,
    defended July 2023.
  - Santhosh Ramakrishnan, , Computer Science. Supervisor: Kristen Grauman.
    Predictive Scene Representations for Embodied Visual Search,
    defended May 2023.
  - Ziyang Tang, Computer Science. Supervisor: Qiang Liu.
    Efficient And Safe Off-Policy Evaluation: From Point Estimation to Interval Estimation,
    defended March 2023.
  - Wonjoon Goo, Computer Science. Supervisor: Scott Niekum.
    Imitation Learning with Auxiliary, Suboptimal, and Task-Agnostic Data,
    defended November 2022.
  - Sadegh Rabiee, Computer Science. Supervisor: Joydeep Biswas.

Introspective Perception for Mobile Robots,
defended September 2022.

- Prasoon Goyal, Computer Science. Supervisors: Raymond Mooney and Scott Niekum.
Using Natural Language for Task Specification in Sequential Decision Making Problems,
defended July 2022.
- Mai Lee Chang, Electrical and Computer Eng. Supervisor: Andrea Thomaz.
Optimizing for Task Performance and Fairness for Human-Robot Teamwork,
defended July 2022.
- Mauricio Tec, Statistics. Supervisors: James Scott and Corwin Zigler.
Spatial Applications of Markov Random Fields and Neural Networks for Spatio-temporal Denoising, Causal Inference and Reinforcement Learning,
defended June 2022.
- Taylor Kessler, Electrical and Computer Eng. Supervisor: Andrea Thomaz.
Learning Robot Policies from Imperfect Human Teacher,
defended May 2022.
- Carlin Liao, Civil Engineering. Supervisor: Steve Boyles.
Modular autonomous intersection management simulation for stochastic and priority auction paradigms,
defended November 2021.
- Akanksha Saran, Computer Science. Supervisor: Scott Niekum.
Leveraging Multimodal Human Cues to Enhance Robot Learning from Demonstration,
defended November 2021.
- Yuchen Cui, Computer Science. Supervisor: Scott Niekum.
Efficient Algorithms for Low-Effort Human Teaching of Robots,
defended November 2021.
- Yan (Francis) Pei, Computer Science. Supervisor: Keshav Pingali.
Introducing Principled Approximation and Online Control into Streaming Applications,
defended July 2021.
- Abhinav Verma, Computer Science. Supervisor: Swarat Chaudhuri.
Programmatic Reinforcement Learning,
defended July 2021.
- Suda Bharadwaj, Aerospace Engineering. Supervisor: Ufuk Topcu.
Assured Decision-Making for Autonomous Systems,
defended July 2021.
- Ruohan Zhang, Computer Science. Supervisor: Dana Ballard.
A Modular Attention Hypothesis for Modeling Visuomotor Behaviors,
defended April 2021.
- Shih-Yun Lo, Mechanical Engineering. Supervisors: Andrea Thomaz and James Sulzer.
Communicative Behavior Generation for Navigational Robots,
defended March 2021.
- Lijia Liu, Computer Science. Supervisor: Dana Ballard.
Cognitive Control of Motor Synergies,
defended March 2021.
- Venktesh Pandey, Civil Engineering. Supervisor: Steve Boyles
Dynamic Pricing and Long-term Planning Models for Managed Lanes with Multiple Entrances and Exits,
defended February 2021.
- Aishwarya Padmakumar, Computer Science. Supervisor: Raymond Mooney.
Dialog as a Vehicle for Lifelong Learning of Grounded Language Understanding Systems,
defended August 2020.
- Daniel Brown, Computer Science. Supervisor: Scott Niekum.
Safe and Efficient Inverse Reinforcement Learning,
defended July 2020.
- Venktesh Pandey, Civil Engineering. Supervisor: Stephen Boyles.
Dynamic Pricing and Long-term Planning Models for Managed Lanes with Multiple Entrances

and Exits,
defended February 2020.
- Jason Liang, Computer Science. Supervisor: Risto Miikkulainen.
Evolutionary Neural Architecture Search for Deep Learning,
defended November 2018.
- Jesse Thomason, Computer Science. Supervisor: Raymond Mooney.
Continually Improving Grounded Natural Language Understanding,
defended April 2018.
- Donghyun Kim, Mechanical Engineering. Supervisor: Luis Sentis.
Sensor-Based Robust Whole-Body Control of Highly Dynamic Legged Robots,
defended November 2017.
- Kwan Suk Kim, Mechanical Engineering. Supervisor: Luis Sentis.
Intelligent Collision Management in Dynamic Environments for Human-Centered Robots,
defended August 2017.
- Karl Pichotta, Computer Science. Supervisor: Raymond Mooney.
Advances in Statistical Script Learning,
defended July 2017.
- Subhashini Venugopalan, Computer Science. Supervisor: Raymond Mooney.
Natural-Language Video Description with Deep Recurrent Neural Networks,
defended June 2017.
- Wesley Tansey, Computer Science. Supervisor: James Scott.
Scalable Smoothing Algorithms for Massive Graph-Structured Data,
defended May 2017.
- Michael Levin, Civil Engineering. Supervisor: Stephen Boyles.
Modeling and Optimizing Network Infrastructure for Autonomous Vehicles,
defended March 2017.
- Pei-Chi Huang, Computer Science. Supervisor: Al Mok.
Real-Time Robotic Tasks for Cyber-Physical Avatars,
defended February 2017.
- Ye Zhao, Mechanical Engineering. Supervisor: Luis Sentis.
A Planning And Control Framework Of Humanoid Systems: Robust, Optimal And Real-Time Performance,
defended August 2016.
- Christian Miller, Computer Science. Supervisor: Donald Fussell.
Derivative-Free Motion Optimization for Animated Characters,
defended August 2016.
- Tarun Rambha, Civil Engineering. Supervisor: Stephen Boyles.
Dynamic Congestion Pricing in Within-Day and Day-to-Day Network Equilibrium Models,
defended July 2016
- Chao-Yeh Chen, Computer Science. Supervisor: Kristen Grauman.
Learning Human Activities and Poses with Interconnected Data Sources,
defended January 2016.
- Ki Jung Yoon, Electrical and Computer Eng. Supervisors: Sriram Vishwanath and Ila Fiete.
Unraveling the Dynamics and Structure of Grid Cells as a Spatial Map in the Brain,
defended November 2015.
- Leif Johnson, Computer Science. Supervisor: Dana Ballard.
Redundancy Reduction in Motor Control,
defended September 2015.
- Donna Chen, Civil Engineering. Supervisor: Kara Kockleman.
Management of a Shared, Autonomous, Electric Vehicle Fleet: Vehicle Choice, Charging Infrastructure Planning, & Pricing Strategy,
defended July 2015.
- Gabriel Lopez-Mobilia, Psychology. Supervisor: Jacqueline Woolley.
Children's Psychological and Moral Attributions to a Humanoid Robot,
defended June 2015.

- Jeremy Stober, Computer Science. Supervisors: Benjamin Kuipers and Risto Miikkulainen.
  Sensorimotor Embedding: A developmental approach to learning geometry,
  defended May 2015.
- Wenke Li, Neuroscience. Supervisor: Mike Mauk.
  Timing in the Cerebellum: A Matter Of Network Inhibition,
  defended January 2015.
- Nicholas Paine, Mechanical Engineering. Supervisor: Luis Sentis.
  High-Performance Series Elastic Actuation,
  defended August 2014.
- Dan Fagnant, Civil Engineering. Supervisor: Kara Kockelman.
  The Future of Fully Automated Vehicles: Opportunities for Vehicle- and Ride-Sharing, with Cost and Emission Savings,
  defended June 2014.
- Fangkai Yang, Computer Science. Supervisor: Vladimir Lifschitz.
  Representing Actions in Logic-Based Languages,
  defended March 2014.
- Jacob Schrum, Computer Science. Supervisor: Risto Miikkulainen.
  Evolving Multimodal Behavior Through Modular Multiobjective Neuroevolution,
  defended March 2014.
- Joohyun Kim, Computer Science, Supervisor: Raymond Mooney.
  Grounded Language Learning Models for Ambiguous Supervision,
  defended August 2013.
- Joseph Cooper, Computer Science, Supervisor: Dana Ballard.
  Analysis and Synthesis of Bipedal Humanoid Movement: A Physical Simulation Approach,
  defended August 2013.
- Jaechul Kim, Computer Science, Supervisor: Kristen Grauman.
  Region Detection and Matching for Object Recognition,
  defended July 2013.
- Yaroslav Rosokha, Economics, Supervisor: Dale Stahl.
  Capacity Of Multi-Antenna Ad Hoc Networks Via Stochastic Geometry,
  defended April 2013.
- Andrew Hunter, Electrical and Computer Engineering, Supervisor: Jeff Andrews.
  Capacity Of Multi-Antenna Ad Hoc Networks Via Stochastic Geometry,
  defended November 2012.
- Rahul Iyer, Computer Science, Supervisor: Dana Ballard.
  Efficient Muscle Representation for Human Walking,
  defended September 2012.
- Bryan Silverthorn, Computer Science, Supervisor: Risto Miikkulainen.
  A Probabilistic Architecture for Algorithm Portfolios,
  defended April 2012.
- Dmitry Kit, Computer Science, Supervisor: Dana Ballard.
  Change Detection Models for Mobile Cameras,
  defended April 2012.
- David Chen, Computer Science, Supervisor: Raymond Mooney.
  Learning Language from Ambiguous Perceptual Context,
  defended January 2012.
- Chinmayi Krishnappa, Computer Science, Supervisor: Greg Plaxton.
  Unit-Demand Auctions: Bridging Theory and Practice,
  defended December 2011.
- Changhai Xu, Computer Science, Supervisors: Benjamin Kuipers and Kristen Grauman.
  Steps Towards the Object Semantic Hierarchy,
  defended August 2011.
- Shilpa Gulati, Mechanical Engineering, Supervisors: Raul Longoria and Benjamin Kuipers.
  A Framework for Characterization and Planning of Safe, Comfortable, and Customizable Motion of Assistive Mobile Robots,

defended June 2011.
- David Han, Electrical and Computer Engineering, Supervisor: K. Suzanne Barber.
Action Selection and Coordination of Autonomous Agents for UAV Surveillance,
defended December 2010.
- Vinod Valsalam, Computer Science, Supervisor: Risto Miikkulainen.
Utilizing Symmetry In Evolutionary Design,
defended August 2010.
- Jonathan Mugan, Computer Science, Supervisor: Benjamin Kuipers.
Autonomous Qualitative Learning of Distinctions and Actions in a Developing Agent,
defended August 2010.
- Yuliya Lierler, Computer Science, Supervisor: Vladimir Lifschitz.
SAT-Based Answer Set Programming,
defended April 2010.
- Yiu Fai Sit, Computer Sciences, Supervisor: Risto Miikkulainen.
A Population Gain Control Model of Spatiotemporal Responses in the Visual Cortex,
defended August 2009.
- Nate Kohl, Computer Science, Supervisor: Risto Miikkulainen.
Learning in Fractured Problems with Constructive Neural Network Algorithms,
defended August 2009.
- Lilyana Mihalkova, Computer Science, Supervisor: Ray Mooney.
Learning with Markov Logic Networks: Transfer Learning, Structure Learning, and an Application to Web Query Disambiguation,
defended July 2009.
- Aniket Murarka, Computer Sciences, Supervisor: Ben Kuipers.
Building Safety Maps using Vision for Safe Local Mobile Robot Navigation,
defended August 2009.
- Michael Bond, Computer Sciences, Supervisor: Kathryn McKinley.
Diagnosing And Tolerating Bugs In Deploymed Systems,
defended September 2008.
- Patrick Beeson, Computer Sciences. Supervisor: Benjamin Kuipers.
Creating And Utilizing Hybrid Representations Of Spatial Knowledge Using Mobile Robots,
defended August 2008.
- Selim Erdogan, Computer Sciences. Supervisor: Vladimir Lifschitz.
A Library of General-Purpose Action Descriptions,
defended July 2008.
- Tal Tversky, Computer Sciences. Supervisor: Risto Miikkulainen, Bill Geisler.
Motion Perception and Scene Statistics of Motion,
defended April 2008.
- Nedialko Dimitrov, Computer Sciences. Supervisor: Greg Plaxton.
Coping with Dynamic Membership, Selfishness, and Incomplete Information: Applications of Probabilistic Analysis and Game Theory,
defended April 2008.
- Youngin Shin, Computer Sciences, Supervisor: Don Fussell.
Parametric Kernels for Structured Data Analysis,
defended December 2007.
- Karen Fullam, Electrical and Computer Engineering. Supervisor: K. Suzanne Barber.
Adaptive Trust Modeling in Multi-Agent Systems: Utilizing Experience and Reputation,
defended November 2007.
- Rohit Kate, Computer Sciences. Supervisor: Raymond Mooney.
Learning For Semantic Parsing With Kernels Under Various Forms Of Supervision,
defended August 2007.
- Jefferson Provost, Computer Sciences. Supervisors: Benjamin Kuipers, Risto Miikkulainen.
Reinforcement Learning in High-Diameter Continuous Environments,
defended August 2007.
- Joseph Modayil, Computer Sciences. Supervisor: Ben Kuipers.

Robot Developmental Learning of an Object Ontology Grounded in Sensorimotor Experience,
defended June 2007.
- Wallace Earl Depue, Jr. (Music), Supervisor: Andrew Dell'Antonio.
Central Park Reel for Violin and Piano,
defended November 2006.
- Bobby Bryant, Computer Sciences, Supervisor: Risto Miikkulainen.
Evolving Visibly Intelligent Behavior For Embedded Game Agents,
defended July 2006.
- Mikhail Bilenko, Computer Sciences, Supervisor: Raymond Mooney.
Learnable Similarity Functions and Their Applications,
defended July 2006.
- Prem Melville, Computer Sciences, Supervisor: Raymond Mooney
Creating Diverse Ensemble Classifiers to Reduce Supervision,
defended November 2005.
- Joohyung Lee, Computer Sciences, Supervisor: Vladimir Lifschitz.
Automated Reasoning about Actions,
defended May 2005.
- Brett Mitchell, Music, Supervisors: Byron Almén, Kevin Noe.
Mahler and the Art of Self-borrowing,
defended May 2005.
- Joon Woo Kim, Electrical and Computer Engineering, Supervisor: K. Suzanne Barber.
Trusting Information and Sources in Open Multi-Agent Systems,
defended November 2003.

- **Doctoral Committee Member:** (External)
  - Rohan Paleja, Computer Science, Georgia Institute of Technology.
  Supervisor: Matthew Gombolay.
  Interpretable Artificial Intelligence for Personalized Human-Robot Collaboration,
  August 2023.
  - Rémy Portelas, Computer Science, University of Bordeaux.
  Supervisors: Pierre-Yves Oudeyer and Katja Hofmann.
  Automatic Curriculum Learning for Developmental Machine Learners.
  February 2022.
  - Sina Ghiassian, Computer Science, University of Alberta.
  Supervisors: Richard Sutton and Adam White.
  Online Off-policy Prediction.
  January 2022.
  - Max Korein, Computer Science, Carnegie Mellon University.
  Supervisor: Manuela Veloso.
  Planning to Optimize and Learn Reward in Navigation Tasks in Structured Environments with Time Constraints.
  July 2021.
  - Mohammad Rostami, Electrical and Systems Engineering, University of Pennsylvania.
  Supervisors: Eric R. Eaton and Daniel D. Lee.
  Learning Transferable Knowledge through Embedding Spaces.
  July 2019.
  - Jakob Foerster, Computer Science, University of Oxford.
  Supervisor: Shimon Whiteson.
  Deep Multi-Agent Reinforcement Learning.
  January 2019.
  - Dhanvin Mehta, Computer Science and Engineering, University of Michigan.
  Supervisor: Edwin Olson.
  Multi-Policy Decision Making for Reliable Navigation in Dynamic Uncertain Environments.
  November 2018.
  - Kaushik Subramanian, Computer Science, Georgia Institute of Technology.

Supervisors: Charles Isbell and Andrea Thomaz.
Policy-Based Exploration for Efficient Reinforcement Learning.
May 2017.

- Timothy Wiley, Computer Science and Engineering, University of New South Wales.
Supervisors: Claude Sammut and Bernhard Hengst.
A Planning and Learning Hierarchy for the Online Acquisition of Robot Behaviours.
June 2017.
- Junqing Wei, Robotics Institute, Carnegie Mellon University.
Supervisor: John Dolan.
Autonomous Vehicle Social Behavior.
May 2017.
- Nolan Bard, Computing Science, University of Alberta.
Supervisor: Michael Bowling.
Online Agent Modelling in Human-Scale Problems.
March 2016.
- Jason Pazis, Computer Science, Duke University.
Supervisor: Ron Parr.
PAC-optimal, Non-parametric Algorithms and Bounds for Exploration in Concurrent MDPs with Delayed Updates.
October 2015.
- Guni Sharon, Computer Science, Ben Gurion University.
Supervisor: Ariel Felner.
Multi-Agent Path-Finding and Agent Centered Search.
July 2015.
- Mariano Schein, Computer Science, Tel Aviv University.
Supervisor: Yishay Mansour.
Machine Learning Algorithms and Robustness.
March 2015.
- Sayan Sen, Computer Science, Vanderbilt University.
Supervisor: Julie Adams.
An Intelligent and Unified Framework for Multiple Robot and Human Coalition Formation.
January 2015.
- Reshef Meir, Computer Science, Hebrew University.
Supervisor: Jeffrey Rosenschein.
Mechanisms for Stability and Welfare: Increasing Cooperation among Self-interested Agents.
August 2013.
- Xiang Li, Computer Science, Texas Tech.
Supervisor: Mohan Sridharan.
Autonomous Learning of Object Models on Mobile Robots Using Visual Cues.
July 2013.
- Somchaya Liemhetcharat, Computer Science, Carnegie Mellon University.
Supervisor: Manuela Veloso.
Representation, Planning, and Learning of Dynamic Ad Hoc Robot Teams.
July 2013.
- Haitham Bou Ammar, Artificial Intelligence, Maastricht University.
Supervisor: Karl Tuyls.
Automated Transfer for Reinforcement Learning.
June 2013.
- Timothy Mann, Computer Science, Texas A&M.
Supervisor: Yoonsuck Choe.
Scaling up RL without Sacrificing Optimality by Constraining Exploration.
October 2012.
- Jason Kulk, Electrical Engineering and Computer Science, University of Newcastle, Australia.
Supervisor: James Welsh.
Improved Humanoid Robot Movement through Impact Perception and Walk Optimisation.

August 2012.
  - Matthew Robards, Computer Science, Australian National University, Australia.
    Supervisor: Peter Sunehag.
    Online Learning for Reinforcement Learning with Function Approximation.
    January 2012.
  - Matteo Leonetti, Ingegneria Informatica, University of Rome.
    Supervisor: Luca Iocchi.
    Robot Teams for Multi-Objective Tasks.
    November 2010.
  - Alessandro Lazaric, Elettronica e Informazione, Politecnico Di Milano.
    Supervisor: Andrea Bonarini.
    Knowledge Transfer in Reinforcement Learning.
    January 2008.
  - Min-Sub Kim, Computer Science and Engineering, University of New South Wales, Australia.
    Supervisor: Will Uther.
    Reinforcement Learning by Incremental Patching.
    January 2008.
  - Vittorio Ziparo, Ingegneria Informatica, University of Rome.
    Supervisor: Daniele Nardi.
    Robot Teams for Multi-Objective Tasks.
    November 2007.
  - Christian Quintero, Electronics, Computer Science and Automatic Control, University of Girona.
    Supervisor: Josep Ll. de la Rosa.
    Introspection on Control-grounded Capabilities. An Agent-inspired Approach for Control .
    October 2007.
  - Robert Abbott, Computer Science, U. of New Mexico.
    Supervisor: Stephanie Forrest.
    Automated Tactics Modeling: Techniques and Applications.
    April 2007.
  - Jelle Kok, Computer Science, University of Amsterdam, Netherlands.
    Supervisor: Nikos Vlassis.
    Coordination and Learning in Cooperative Multiagent Systems.
    November 2006.
  - Michael Quinlan, Computer Science and Software Engineering, U. of Newcastle, Australia.
    Supervisor: Stephan Chalup.
    Machine Learning on AIBO Robots.
    June 2006.
  - Jeff Riley, RMIT University, Australia.
    Supervisor: Victor Ciesielski.
    Evolving Fuzzy Rules for Goal-Scoring Behaviour in a Robot Soccer Environment.
    February 2006.
- **Masters Thesis Supervisor:** (The University of Texas at Austin)
  - Sai Kiran Narayanaswami, Computer Science, Summer 2023.
    Decision-Making Problems in Computationally Constrained Robot Perception
  - William Macke, Computer Science, Spring 2023.
    Optimizing and Planning with Queries in Communication in Ad Hoc Teamwork.
  - Bharath Masetty, Mechanical Engineering, Summery 2021.
    Modeling Human Motor Learning Traits using Reinforcement Learning.
  - Qiping Zhang, Computer Science, Summer 2021.
    Iteractive Learning from Ipmlicit Human Feedback: The EMPATHIC Framework.
  - Brahma Pavse, Computer Science, Spring 2020.
    Reducing Sampling Error in Batch Temporal Difference Learning.
  - Prabhat Nagarajan, Computer Science, Summer 2018.
    Nondeterminism as a Reproducibility Challenge for Deep Reinforcement Learning.
  - Rolando Fernandez Jr., Spring 2017.

Light-Based Nonverbal Signaling with Passive Demonstrations for Mobile Service Robots.
  - Priyanka Kante, Computer Science, Spring 2017.
    Learning Attributes of Real-world Objects by Clustering Multimodal Sensory Data.
  - Yuchen He, Computer Science, Autumn 2013.
    Localization using Natural Landmarks Off-Field for Robot Soccer.
  - Alon Farchy, Computer Science, Spring 2012.
    Learning in Simulation for Real Robots.
  - Neda Shahidi, ECE, Summer 2010.
    A Response Delayed Policy for Autonomous Intersection Management.
  - Gurushyam Hariharan, ECE, Spring 2004.
    News Mining Agent for Automated Stock Trading.
  - Harish Subramanian, ECE, Summer 2004.
    Evolutionary Algorithms in Optimization of Technical Rules for Automated Stock Trading.
- **Masters Thesis Reader:** (The University of Texas at Austin)
  - Josh Kelle, Computer Science, Spring 2017.
    Supervisor: Kristen Grauman.
    Frugal Forests: Learning a Dynamic and Cost Sensitive Feature Extraction Policy for Anytime Activity Classification.
  - Shun Zhang, Computer Science, Summer 2015.
    Supervisor: Dana Ballard.
    Parameterized Modular Inverse Reinforcement Learning.
  - Jason Liang, Computer Science, Spring 2015.
    Supervisor: Risto Miikkulainen.
    Evolutionary Bilevel Optimization for Complex Control Problems and Blackbox Optimization.
  - Anand Subramoney, Computer Science, Summer 2012.
    Supervisor: Risto Miikkulainen.
    Evaluating ESP in the robot soccer keepaway domain.
  - Aravind Gowrisankar, Computer Sciences, Autumn 2008.
    Supervisor: Risto Miikkulainen.
    Evoloving Controllers for Simulated Car Racing Using Neuroevolution.
  - Travis Mercker, Aerospace Engineering, Spring 2008.
    Supervisor: Maruthi Akella.
    Self-Organization and Navigation Algorithms for Deployable Decentralized Sensor Networks.
  - Karen Fullam, ECE, Autumn 2003.
    Supervisor: K. Suzanne Barber.
    An Expressive Belief Revision Framework Based on Information Valuation.
- **Masters Thesis Reader:** (External)
  - Leonid Trainer, Computer Science, Hebrew University.
    Supervisor: Jeff Rosenschein.
    Collaboration in Ad Hoc Settings: Novel Approaches to Implementation.
    December 2014.
- **Undergraduate Honors Thesis Supervisor** (The University of Texas at Austin)
  - Brahma Pavse, Computer Science, Spring 2019.
    RIDM: Reinforced Inverse Dynamics Modeling for Learning from a Single Observed Demonstration.
  - Harsh Goyal, Computer Science, Spring 2019.
    Holistic Action Transform.
  - Sean Geiger, Computer Science, Spring 2019.
    Sample-efficient Imitation from Observation on a Robotic Arm.
  - Avilash Rath, Computer Science, Spring 2019.
    Learning Social Behavior from Human Feedback in Ad Hoc Teamwork.
  - John Fang, Computer Science, Spring 2019.
    Black-Box Optimization of Parameterized Link-Dependent Road Tolling.
  - Virin Tamprateep, Computer Science, Spring 2017.
    Of Mice and Mazes: Simulating Mice Behavior with Reinforcement Learning.

  - Yuqian Jiang, Computer Science, Autumn 2016.
    Efficient Symbolic Task Planning for Multiple Mobile Robots.
  - Patricio Lankenau, Computer Science, Summer 2016.
    Virtour: Telepresence System for Remotely Operated Building Tours.
  - Mike Depinet, Computer Science, Spring 2014.
    Keyframe Sampling, Optimization, and Behavior Integration: A New Longest Kick in the RoboCup 3D Simulation League.
  - Christopher Donahue, Computer Science, Autumn 2013.
    Applications of genetic programming to digital audio synthesis.
  - Dustin Carlino, Computer Science, Autumn 2013.
    Approximately Orchestrated Routing and Transportation Analyzer: City-scale autonomous traffic simulation.
  - Adrian Lopez-Mobilia, Computer Science, Spring 2012.
    Inverse Kinematics Kicking in the Humanoid RoboCup Simulation League.
  - Jason Weng, Computer Science, Spring 2012.
    Identifying the Content and Location of Objects in a Roadside Image through Computer Vision.
  - Nick Collins, Computer Science, Spring 2012.
    Transformation of robot model to facilitate optimization of locomotion.
  - Chau Nguyen, Computer Science, Autumn 2009.
    Constructing Drivability Maps From 3D Laser Range Data for Autonomous Vehicles.
  - Adam Setapen, Computer Science, Spring 2009.
    Exploiting Human Motor Skills for Training Bipedal Robots.
  - Tarun Nimmagadda, Computer Sciences, Spring 2008.
    Building an Autonomous Ground Traffic System.
  - Ryan Madigan, Computer Sciences, Spring 2007.
    Control Module for an Autonomous Mobile Robot Operating in an Urban Environment.
  - Jan Ulrich, Computer Sciences, Spring 2006.
    An Analysis of the 2005 TAC SCM Finals.
  - Irvin Hwang, Computer Sciences, Spring 2005.
    Discovering Conditions for Intermediate Reinforcement with Causal Models.
  - Ellie Lin, Computer Sciences, Autumn 2003.
    Creation of a Fine Controlled Action for a Robot.
- **Undergraduate Thesis Reader:** (The University of Texas at Austin)
  - Rahul Menon, Computer Science, Spring 2023.
    Supervisor: Joydeep Biswas.
    Terrain-Adaptive Global Planning from Local Demonstrations.
  - Thomas Nathaniel Plaxton, Computer Science, Spring 2023.
    Supervisor: Joydeep Biswas.
    Estimating Kinodynamic Uncertainty Using Learned Gaussian Noise Models.
  - Elvin Yang, Computer Science, Spring 2023.
    Supervisor: Joydeep Biswas.
    Wait, That Feels Familiar: Learning to Extrapolate Human Preferences for Preference-Aligned Path Planning.
  - Evonne Ng, Computer Science, Spring 2019.
    Supervisor: Kristen Grauman.
    You2Me: Inferring Body Pose in Egocentric Video via First and Second Person Interactions.
  - Victoria Zhou, Computer Science, Spring 2019.
    Supervisor: Justin Hart.
    Exploration of Neural Networks for Stereo Vision.
  - Michael Langford, Computational Engineering, Spring 2019.
    Supervisor: Bruce Pennycock.
    A Comparison of Recurrent Neural Network Effectiveness in Generating Music in the Style of 18th-Century Counterpoint.
  - Jackson Haenchen, Plan II, Spring 2017.
    Supervisor: David Prindle.

Artificial Intelligence: Predictions for the Future through a Political Lens.
- Rodolfo Corona, Computer Science, Autumn 2016.
  Supervisor: Raymond Mooney.
  An Analysis of Using Semantic Parsing for Speech Recognition.
- Michael Levin, Computer Science, Autumn 2012.
  Supervisor: Stephen Boyles.
  A Comparative Analysis of Heuristics for the Improved Convergence of Dynamic Traffic Assignment Models.
- David Robson, Computer Science, Spring 2010.
  Supervisor: Risto Miikkulainen.
  Hierarchical Neural Networks for Behavior-Based Decision Making.
- Laurel Issen, Computer Sciences, Spring 2006.
  Supervisor: Bill Geisler.
  Using Edge Statistics for Object Recognition.
- Clare Richardson, Computer Sciences, Autumn 2005.
  Supervisor: Benjamin Kuipers.
  Rapid, High Precision Control in Tightly Constrained Environments.

OTHER ADVISING

- **Postdoctoral Fellows:** Chen Tang (2023–), Alexander Levine (2023–), Arrasy Rahman (2022–), Rohan Chandra (2022–), Yoonchang Song (2021–), Shahaf Shperberg (2021–22), Yulin Zhang (2021–22), Xuesu Xiao (2019–22), Reuth Mirsky (2019–22), Harel Yedidsion (2017–21), Shani Alkoby (2017–19), Patrick MacAlpine (2017–18), Guni Sharon (2015–18), Justin Hart (2016–17), Stefano Albrecht (2016–2017), Jivko Sinapov (2014–2017), Michael Albert (2015–2016), Shiqi Zhang (2014–2016), Matteo Leonetti (2013–2015), Todd Hester (2013), Noa Agmon (2010–2012), Tsz-Chiu Au (2008–2012), Michael Quinlan (2007–2011), Tobias Jung (2008–2010), Patrick Beeson (2008–2009), Ian Fasel (2007–2008), Yaxin Liu (2004–2007), Bikramjit Banerjee (2006).
- **Other Current UT Austin Ph.D. students:** Jiaxun Cui, Sid Desai, Jiaheng Hu, Eddy Hudson, Haresh Karnan, Yuqian Jiang, Yu-Sian Jiang, Bo Liu, Jin Soo Park, Caroline Wang, Zizhao Wang, Zifan Xu, Yifeng Zhu.
- **Other UT Austin undergraduate research:** Stephane Hatgis-Kessell (2021–23), Akarsh Kumar (2021–22), Gauraang Dhamankar (2020–21), Nick Walker (2016–18), Chris Gramberg (2017–18), John Sigmon (2017–18), Maxwell Svetlik (2015–17), Shun Zhang (2012–14), Andrew Sharp (2012–13), Art Richards (2011), Nicu Stiurca (2011), Francisco Barrera (2011), Bartley Gillan (2007), Mickey Ristroph (2007), Srinivas Ashok (2007), David Li (2007), David Reaves (2007), Thomas Nelson (2006–07), Augustine Mathew (2006–07), Ben Bradley (2004), Aashish Parekh (2004), Prashanth Govindarajan (2003), Bharat Kejriwal (2003), Justin Lallinger (2003), Ali Niaz (2003).
- **AT&T Labs – Research summer intern:** Paul Reitsma (2001).
- **CMU undergraduate research** (informal): Patrick Riley (1998–1999), Michael Bowling (1996).

PROFESSIONAL ACTIVITIES

- **Major event coordination**:
  - **General co-chair**, International Conference on Distributed Artificial Intelligence (DAI), 2023.
  - **Conference chair**, International Joint Conference on Artificial Intelligence (IJCAI), 2023.
  - **Program co-chair**, Multi-disciplinary Conference on Reinforcement Learning and Decision Making (RLDM), 2022.
  - **General chair**, RoboCup, 2021.
  - **Journal Track chair**, International Joint Conference on Artificial Intelligence (IJCAI), 2017.
  - **Journal Track chair**, Autonomous Agents and Multi-Agent Systems (AAMAS), 2016.
  - **Co-chair**, Machine Learning Summer School (MLSS), 2015.
  - **Program co-chair**, AAAI Conference on Artificial Intelligence (AAAI), 2014.
  - **Tutorial chair**, International Conference on Machine Learning (ICML), 2013.
  - **Video Track Chair**, International Joint Conference on Artificial Intelligence (IJCAI), 2011.
  - **General co-chair**, Autonomous Agents and Multi-Agent Systems (AAMAS), 2011.

  - **Tutorial co-chair**, Conference on Artificial Intelligence (AAAI), 2008.
  - **Program co-chair**, Autonomous Agents and Multi-Agent Systems (AAMAS), 2006.
  - **Workshop co-chair**, Conference on Artificialy Intelligence (AAAI), 2005.
  - **Chair**, RoboCup US Open simulation league committee, 2005, 2004.
  - **Tutorial chair**, International Joint Conference on Artificial Intelligence (IJCAI), 2003.
  - **Entry coordinator**, Trading Agent Competition, 2001.
  - **Associate chair** in charge of simulation events for RoboCup, 2001.
  - **Co-chair**, RoboCup simulator competition organizing committee, 1997–1999.
- **Workshop/Symposium coordination**:
  - **Co-chair**, RoboCup Symposium, 2012.
  - **Program Co-chair**, Humanoids Workshop on *Humanoid Soccer Robots*, 2010, 2011.
  - **Co-chair**, AAAI workshop on *Multiagent Learning*, 2005.
  - **Co-chair**, ICML Workshop on *Physiological Data Mining Contest*, 2004.
  - **Chair**, Information Science and Technology (ISAT) study on *Distributed Cognitive Systems Focused on Team/Multiagent Learning*, 2004, 2005.
  - **Co-chair**, IJCAI workshop on *Trading Agent Design and Analysis*, 2003.
  - **Co-chair**, AAAI Fall Symposium on *Personalized Agents*, 2002.
  - **Co-chair**, AAAI Spring Symposium on *Collaborative Learning Agents*, 2002.
  - **Co-chair**, Agents Workshop on *Learning Agents*, 2001.
  - **Co-chair**, RoboCup Workshop, 2000.
  - **Co-chair**, Agents Workshop on *Learning Agents*, 2000.
- **Editor-in-chief**, *Journal of Autonomous Agents and Multi-Agent Systems* (JAAMAS), 2010–2016.
- **Editor**, *Synthesis Lectures on Artificial Intelligence and Machine Learning*, 2012–present.
- **Associate editor**:
  - *International Conference on Robotics and Automation* (ICRA), 2011.
  - *Artificial Intelligence Journal* (AIJ), 2007–2014.
  - *J. of Autonomous Agents and Multi-Agent Systems* (JAAMAS), 2003–2009, 2016–present.
  - *ACM Transactions on Internet Technology* (TOIT), 2003–2005.
  - *International Journal of Image and Graphics* (IJIG), 2002–2006.
- **Assistant editor**:
  - *ACM SIGecom Exchanges*, 2004–2005.
- **Editorial board**:
  - ACM Journal on *Responsible Computing*, 2022–present.
  - *Machine Learning Journal* (MLJ), 2003–present.
  - Springer Verlag's *Encyclopedia of Machine Learning*, 2005–2010.
  - *Journal of Artificial Intelligence Research* (JAIR), 2002–2005.
- **Guest editor**:
  - AIJ special issue on *Autonomous Agents Modelling Other Agents*, 2020.
  - IEEE Intelligent Systems special issue on *Multi-Robot Systems*, 2017.
  - JAAMAS special issue on *Multiagent Interaction without Prior Coordination*, 2016.
  - ACM SIGecom Exchanges special issue on *Trading Agent Design and Analysis*, 2004.
  - IEEE Intelligent Systems special issue on *Agents and Markets*, 2003.
- **Organizing committee member**:
  - AAMAS workshop on *Rebellion and disobedience in AI* (RaD-AI), 2022, 2023.
  - ICRA workshop on *Machine Learning for Motion Planning*, 2021.
  - AAAI Spring Symposium on *Machine Learning for Mobile Robot Navigation in the Wild*, 2021.
  - AAAI Fall Symposium on *Reasoning and Learning in Real-World Systems for Long-Term Autonomy* (LTA), 2018.
  - IJCAI workshop on *Explainable Artificial Intelligence* (XAI), 2017.
  - AAAI Spring Syposium on *Challenges and Opportunities in Multiagent Learning for the Real World*, 2016.
  - AAAI Spring Syposium on *Intelligent Systems for Supporting Distributed Human Teamwork*, 2016.
  - NIPS workshop on *Learning, Inference and Control of Multi-Agent Systems*, 2015.
  - AAAI Spring Symposium on *Applied Computational Game Theory*, 2015.

  - AAMAS workshop on *Agent Technologies for Energy Systems* (ATES), 2013.
  - IJCAI Workshop on *General Game Playing*, 2009.
  - 2nd *Reinforcement Learning Competition*, 2008.
  - ICAPS Workshop on *AI Planning and Learning*, 2007.
  - NIPS Workshop on *The Inaugural Reinforcement Learning Competition*, 2006.
  - AAAI Fall Symposium on *Real Life Reinforcement Learning*, 2004.
  - AAMAS Workshop on *Learning and Evolution in Agent Based Systems*, 2004.
- **Book reviewer**:
  - Elsevier, 2015, 2016.
  - Synthesis Lecture Series, 2011.
  - Cambridge University Press, 2010.
  - John Wiley & Sons, 2006, 2007.
  - Morgan Kaufmann, 2001.
- **Journal article reviewer**:
  - *Adaptive Behavior*, 2006.
  - *Advanced Robotics Journal*, 1999.
  - *ACM Transactions on Intelligent Systems and Technology* (TIST), 2010
  - *AI Communication* (AICOM), 2005.
  - *AI Magazine*, 2010.
  - *Artificial Intelligence* (AIJ), 2002, 2005, 2006, 2013, 2014, 2016, 2018, 2019.
  - *Autonomous Agents and Multi-Agent Systems* (JAAMAS), 2000, 2002–2007.
  - *Autonomous Robots*, 1999.
  - *Communications of the ACM* (CACM), 2009, 2010, 2022.
  - *Computational Intelligence*, 2003.
  - *Data Mining and Knowledge Discovery* (DMKD) 2007.
  - *Decision Support Systems* (DSS), 2003, 2004, 2006, 2007.
  - *Electronic Commerce* (EC)
  - *Electronic Communication of the EASST* (ECEASST)
  - *Electronic Markets* (EM), 2002.
  - *Engineering Applications of Artificial Intelligence* (EAAI), 2011
  - *IEEE Internet Computing*, 2006.
  - *IEEE Robotics and Automation Letters* (RA-L), 2020.
  - *IEEE Transactions on Games*, 2020.
  - *IEEE Transactions on Intelligent Transportation Systems*, 2010.
  - *IEEE Transactions on Knowledge and Data Engineering* (IEEE TKDE), 1999, 2002.
  - *IEEE Transactions on Robotics* (IEEE TRO), 2004–2007.
  - *IEEE Transactions on Robotics and Automation* (IEEE TRA), 2001, 2002.
  - *International Journal of Robotics Research* (IJRR), 2011–2013.
  - *International Journal of Social Robotics* (IJSR), 2011.
  - *INFORMS Journal on Computing*, 2006.
  - *International Journal of Advanced Robotic Systems* (IJARS), 2012.
  - *Journal of Artificial Intelligence Research* (JAIR), 2000–2005, 2012, 2013.
  - *Journal of Behavioral Robotics*, 2009.
  - *Journal of Intelligent and Robotic Systems* (JINT) 2013.
  - *Journal of Intelligent Traffic Systems* (JITS), 2010.
  - *Journal of Machine Learning Research* (JMLR), 2003, 2005, 2009, 2011.
  - *Knowledge and Information Systems* (KAIS), 2000, 2002.
  - *Knowledge Engineering Review*, 2003.
  - *Machine Learning Journal* (MLJ), 2003, 2005–2013, 2015.
  - *Nature*, 2018.
  - *Neural Networks* (NN), 2007, 2008.
  - *Robotics and Autonomous Systems* (RAS), 2003, 2007.
  - *Science*, 2018, 2022.
  - *Systems, Man and Cybernetics* (SMC), 2005.
  - *Texas Undergraduate Research Journal*, 2013.

  - *Transportation Research Board* (TRB), 2014.
  - *Transportation Research Part C* (TRC), 2010.
  - *Wiley Interdisciplinary Reviews: Cognitive Science*, 2009.
- **Conference senior area chair**:
  - International Conference on Machine Learning (ICML), 2021–2023.
  - International Joint Conference on Artificial Intelligence (IJCAI), 2021.
  - Neural Information Processing Systems (NeurIPS), 2002, 2003, 2017, 2018, 2020–2023.
- **Conference area chair**:
  - AAAI Conference on Artificial Intelligence (AAAI), 2018, 2021, 2023.
  - Autonomous Agents and Multiagent Systems (AAMAS), 2019.
  - International Joint Conference on Artificial Intelligence (IJCAI), 2009, 2013, 2016, 2018, 2019, 2022.
  - International Conference on Machine Learning (ICML), 2003, 2012, 2015, 2016.
  - European Conference on Machine Learning (ECML), 2005.
- **Conference senior program committee member**:
  - International Conference on Intelligent Robots and Systems (IROS), 2020.
  - Autonomous Agents and Multiagent Systems (AAMAS), 2003, 2004, 2007, 2016.
  - International Joint Conference on Artificial Intelligence (IJCAI), 2007, 2015.
  - International Conference on Machine Learning (ICML), 2006.
  - AAAI Conference on Artificial Intelligence, 2002, 2004.
- **Conference program committee member**:
  - Multi-disciplinary Conference on Reinforcement Learning and Decision Making (RLDM), 2015, 2017.
  - Conference on Artificial Intelligence (AAAI), 2012 (Computational Sustainability Track), 2007, 2010 (Integrated Intelligence Track), 2000.
  - International Conference on Machine Learning (ICML), 2000, 2008, 2010.
  - Autonomous Agents and Multiagent Systems (AAMAS), 2008.
  - International Conf. on Automated Planning and Scheduling. (ICAPS), 2003, 2007.
  - Robotics: Science and Systems (RSS), 2006.
  - International Joint Conference on Artificial Intelligence (IJCAI), 2001, 2003, 2005.
  - International Conference on Autonomic Computing (ICAC), 2004, 2005.
  - ACM Conference on Electionic Commerce (EC), 2005.
  - Neural Information Processing Systems (NIPS), 2002, 2003.
  - European Conference on Machine Learning (ECML), 2001–2003.
  - Autonomous Intelligent Networks and Systems Conference (AINS), 2003.
  - Distributed Autonomous Robotic Systems (DARS), 2000, 2002.
  - Intelligent Autonomous Systems (IAS), 2002.
  - International Conference on Artificial Intelligence (IC-AI), 2001.
  - Autonomous Agents (AA), 2000, 2001.
  - International Conference on Multi-Agent Systems (ICMAS), 2000.
  - International Conference on Enterprise Information Systems (ICEIS), 2000.
- **Conference paper reviewer**
  - Multi-disciplinary Conference on Reinforcement Learning and Decision Making (RLDM), 2019.
  - Autonomous Agents and Multiagent Systems (AAMAS), Blue Sky track, 2015.
  - Conference on Artificial Intelligence (AAAI), Senior Member track, 2015.
  - International Conference on Intelligent Robots and Systems (IROS), 2013, 2015.
  - ASME International Design Engineering Technical Conference (IDETC), 2012.
  - Neural Information Processing Systems (NIPS), 2011.
  - Autonomous Agents and Multiagent Systems (AAMAS), 2010.
  - IEEE International Conference on Robotics and Automation (ICRA), 2005, 2008–2010.
  - IEEE Conference on Intelligent Transportation Systems (ITSC), 2009.
- **Workshop/symposium program committee member**:
  - NeurIPS workshop on *Cooperative AI*, 2021.
  - IJCAI workshop on *AI for Sports Analytics*, 2021.

  - AAAI Spring Symposium on *Challenges and Opportunities in Multi-Agent Reinforcement Learning* (COMARL), 2020.
  - ECAI workshop on *Safe Machine Learning*, 2020.
  - IJCAI workshop on *Education in AI K-12*, 2019.
  - AAAI Fall Symposium on *Natural Communication for Human-Robot Collaboration*, 2017.
  - RoboCup Symposium, 2001–2005, 2010, 2013, 2015, 2016, 2021, 2023.
  - RSS workshop on *Combining AI Reasoning and Cognitive Science with Robotics*, 2015.
  - IJCAI *AI video competition*, 2009, 2015.
  - AAMAS workshop on *Multiagent Sequential Decision Making Under Uncertainty*, 2013.
  - Technical track on *Cooperative Multi-Agent Systems and Applications* (CMASA), ACM Symposium on Applied Computing (SAC), 2013.
  - Humanoids workshop on *Humanoid Soccer*, 2012.
  - AAMAS workshop on *Autonomous Robots and Multirobot Systems* (ARMS), 2012.
  - AAAI *Doctoral Consortium*, 2011.
  - IEEE International Symposium on *Robot and Human Interaction Communciation* (Ro-Man) — associate editor, 2011.
  - IJCAI workshop on *Trading Agent Design and Analysis* (TADA), 2011.
  - ECAI workshop on *Benchmarking Intelligent (Multi-)Robot Systems* (BIMRS), 2010.
  - AAAI *AI video competition*, 2010.
  - AAMAS 2010 workshop on *Agents in Real-Time and Dynamic Environments*, 2010.
  - AAAI workshop on *Trading Agent Design and Analysis* (TADA), 2008.
  - ECAI workshop on *Cognitive Robotics*, 2008.
  - AAMAS workshop on *Formal Models and Methods for Multi-Robot Systems*, 2008.
  - ICAPS workshop on *AI Planning and Learning* (AIPL), 2007.
  - ICAC workshop on *Adaptive Methods in Autonomic Computing* (AMACS), 2007.
  - Second workshop on *Tackling Computer Systems Problems with Machine Learning Techniques* (SysML), 2007.
  - ICML workshop on *Structural Knowledge Transfer for Machine Learning*, 2006.
  - 3rd International IEEE Latin American Robotic Symposium (LARS), 2006.
  - AAMAS workshop on *Agent Mediated Electronic Commerce* (AMEC/TADA), 2006.
  - IJCAI workshop on *Planning and Learning in A Priori Unknown or Dynamic Domains*, 2005.
  - IJCAI workshop on *Trading Agent Design and Analysis* (TADA), 2005.
  - IJCAI workshop on *Agents in Real-Time and Dynamic Environments*, 2005.
  - AAMAS workshop on *Learning and Adaptation in MAS* (LAMAS), 2005.
  - AAMAS workshop on *Teaching Multiagent Systems* (TeachMAS), 2005.
  - AAMAS workshop on *Trading Agent Design and Analysis* (TADA), 2004.
  - ICML workshop on *Predictive Representations of World State*, 2004.
  - IJCAI Workshop on *Agents in Dynamic Real-Time Environments*, 2003.
  - AAMAS Workshop on *Resource, Role, and Task Allocation in MAS*, 2003.
  - Pacific Rim MultiAgent Workshop (PRIMA), 2000–2002.
  - AAMAS Workshop on *Coalitions and Team Formation*, 2002.
  - AAMAS Workshop on *MAS Problem Spaces and Their Implications to Achieving Globally Coherent Behavior Coalitions and Team Formation*, 2002.
  - *Agents, Theories, Architectures, and Languages* (ATAL), 2001.
  - Agents Workshop on *Infrastructure for Agents, Multi-Agent Systems, and Scalable Multi-Agent Systems*, 2001.
  - ECAI Workshop on *Balancing Reactivity and Social Deliberation in Multi-Agent Systems*, 2000.
  - ICMAS *Collective Robotics* Workshop, 1998.
  - IROS Workshop on *RoboCup*, 1996.
- **President**, RoboCup Federation, 2019–2022. **Past-President** 2022–2024.
- **Vice President**, RoboCup Federation, 2013–2019.
- **Trustee**, RoboCup Federation, 2003–present.
- **Executive Committee**, RoboCup Federation, 1999–present.
- **Director**, RoboCup, US, 2017–present.

- **Secretary**, RoboCup, US, 2016–2017.
- **Chair**, Standing Committee of the 100 Year Study on AI, 2018–2023. **Past-Chair** 2023–2025.
- **Chair**, First Study Panel of the One Hundred Year Study on AI, 2015–2016.
- **Trustee**, International Joint Conferences on Artificial Intelligence (IJCAI), 2020–2025.
- **Executive Committee**, The Multi-disciplinary Conference on Reinforcement Learning and Decision Making (RLDM), 2022–present.
- **Advisory Board**, Conference on Lifelong Learning Agents (CoLLA), 2022–present.
- **Advisory Board**, Workshop series on Generalization in Planning (GenPlan), 2021–present.
- **International Advisory Board**, Center for Artificial Intelligence at University of Sao Paulo, Brazil, 2020–present.
- **Selection Committee**, ACM SIGAI Autonomous Agents Research Award, 2023.
- **International Advisory Committee**, RoboCup Asia-Pacific Tianjin Invitational Tournament, 2021.
- **Advisory Committee**, AAAS committee on AI & Judiciary, 2021.
- **Advisory Board**, MDPI Robotics Journal, 2021–present.
- **Fellows Committee**, AAAI 2016–2018.
- **Feigenbaum Prize Committee**, AAAI 2014–2017.
- **Conference Committee**, AAAI, **Chair** 2018–2020, Member 2014–2016.
- **Advisory Committee**, AAAI, 2015.
- **Awards Committee**, IJCAI, 2010–2015.
- **Advisory Committee**, IJCAI, 2009.
- **Senior Steering Committee**, AAAI workshop on *Transfer Learning for Complex Tasks*, 2008.
- **Steering committee**:
  - Adaptive and Learning Agents Workshop (ALA), 2008–present.
  - LPNMR workshop on *Knowledge Representation and Planning in Robotics and Autonomous Systems* (KRPRAS), 2017.
  - AAAI workshop on *Multiagent Interaction without Prior Coordination*, 2014–2016.
  - Pacific Rim Trading Agent Competition, 2007.
  - IPTO Cognitive Systems Conference, 2005–2006.
- **Councilor**, Association for the Advancement of Artificial Intelligence (AAAI), 2005–2008.
- **Board of directors**, Association for Trading Agent Research, 2003–2009.
- **Consultant**, Information Science and Technology (ISAT) Summer Study on *Automated Intent Recognition on Distributed Organizations* (AIRDO), 2003.
- **Advisory board**, Springer-Verlag book on *Balancing Reactivity and Social Deliberation in MAS*, 2000–2001.
- **Advisor**, National Academy of Engineering DARPA Prize Authority Workshop, 2000.
- **Mentor**, AAAI Undergraduate Mentoring Program, 2021, 2022.
- **Mentor**, AAMAS Doctoral Mentoring Program, 2010.
- **Project reviewer:**
  - European Commission (EC) "Composing Learning systems for Artificial Cognitive Systems," (CompLACS) 2012.
  - European Commission (EC) "Ubiquitous Networking Robotics in Urban Settings," (URUS) 2008–2010.
  - Science Foundation of Ireland (SFI) "Integrated Analysis of System of Systems," 2009.
  - UK EPSRC "Market-Based Control of Complex Computational Systems," 2008.
- **Proposal reviewer:**
  - Computing Innovation Fellows, 2020.
  - Army Research Office, 2020, 2019.
  - United Arab Emirates University, 2019, 2018.
  - Czech Science Foundation, 2015.
  - European Commission (EC) 2013, 2012, 2010.
  - Army Research Office (ARO) 2011.
  - Instituto de Telecomunicações (IT), Portugal, 2011.
  - National Science Foundation (NSF), 2016, 2014, 2013, 2008–11, 2002–04, 1999.
  - US-Israel Binational Science Foundation (BSF), 2007, 2003, 2000.
  - Microsoft Scholarship, 2007.

  - French Agence Nationale de la Recherche (ANR), 2006.
  - City University of New York internal research award program, 2006.
  - Research Council of Norway, 2003.
  - Israel Science Foundation (ISF), 2010, 2004, 2002.
  - Alberta Circle of Research Excellence (iCORE), 2000.
- **Departmental and university service:**
  - Director, Texas Robotics, 2017–present.
  - Associate Chair, Computer Science Department, 2015–present.
  - Chair, Graduate Portfolio Program in Robotics, 2015–present.
  - Scientific Board, Machine Learning Laboratory, 2020–present.
  - Executive Team Member, Good Systems Bridging Barriers Initiative 2017—present.
  - Chair, Graduate Studies Committee (GSC) of Online Masters Program in AI, 2022–present.
  - Faculty Evaluation committee, 2022–23, 2003–04.
  - Faculty Recruiting committee, 2020–21(co-chair), 2015–16, 2014–15, 2012–13, 2006–07.
  - Online Masters Admissions Committee, 2019–present.
  - Bridging Disciplines Program Committee for Smart Cities, 2019–present.
  - Graduate Studies Committee (GSC) of UT Austin Operations Research and Industrial Engineering (ORIE), 2017–present.
  - President's Council on TEXAS Impact, 2019–20.
  - Mechanical Engineering Faculty Search Committee, 2019–20.
  - SURA Distinguished Scientist Awards, Internal Review Committee, 2019–20.
  - Undergraduate Studies Committee, 2019–20, 2018–19.
  - Chair, Provost's Future of Computing Task Force, 2017.
  - Chair, Faculty Awards and Honors Committee, 2016–17.
  - GDC Advisory Board, 2015–16.
  - Search Committee for Neuroscience Department Chair, 2015–16.
  - Colloquia committee, 2013–14.
  - College of Natural Sciences Strategic Planning Task Force, 2013.
  - Doctoral Admissions committee, 2019–20 (ex officio), 2011–12(chair), 2009–10, 2007–08, 2005–06.
  - Mechanical Engineering recruiting committee for "Intelligent Physical Systems," 2011.
  - Selection committee for the University Best Dissertation award, 2011.
  - Chair, Special Events committee, 2010–11, 2009–10, 2004–05.
  - Strategic Initiatives committee, 2011–12
  - Blunk Memorial Professorship award committee, 2010, 2009.
  - AI lab steering committee, 2004–present.
  - Graduate Studies Committee (GSC) of UT Austin ECE department, 2008–present.
  - Turing Scholars committee, 2008.
  - Ad hoc committee on the new WLC policy, 2006.
  - Ad hoc Japan Prize committee, 2006.
  - Ad hoc GSC committee on diversity proposals, 2005.
  - Evaluation of Graduate Programs committee, 2004–05.
  - Departmental Best Dissertation committee, 2003.

INVITED DISTINGUISHED LECTURES

- "Practical Reinforcement Learning: Lessons from 30 Years of Research"
  Keynote talk at the Upper Bound Conference.
  Edmonton, AB. May 2023.
- "Topics in Multiagent Learning Motivated by Ad Hoc Teamwork"
  Keynote talk at The Fourth International Conference on Distributed Artificial Intelligence (DAI).
  Tianjin, China (Virtual). December 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  Computer Science Department **Distinguished Lecture at Tulane University**.

New Orleans, LA. December 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  University of Memphis CS Distinguished Colloquium Speaker.
  Memphis, TN (Virtual). April 2022.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  Plenary talk at International Joint Conferences on Artificial Intelligence (IJCAI).
  Yokohama, Japan (virtual). January 2021.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Instituto Superior Técnico (IST) Distinguished Lecture, co-sponsored by American Corner.
  Lisbon, Portugal (virtual). November 2020.
- "Advances in Ad Hoc Teamwork and Adaptive Tolling for Multiagent Traffic Optimization"
  Keynote talk at IEEE International Symposium on Multi-Robot and Multi-Agent Systems (MRS).
  New Brunswick, NJ. August 2020.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Distinguished Lecture at Microsoft Research.
  Seattle, WA. August 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Keynote talk at Amazon Machine Learning Conference.
  Seattle, WA. July 2019.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  Keynote talk at NVIDIA NTECH Conference.
  Santa Clara, CA. September 2017.
- "Artificial Intelligence and Life in 2030"
  Keynote talk at Finish Prime Minister's symposium on Artificial Intelligence. Helsinki, Finland.
  February 2017.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Keynote talk at International Conference on Computer Aided Design (ICCAD).
  Austin, TX. November 2016.
- "Autonomous Learning Agents: Layered Learning and Ad Hoc Teamwork"
  Keynote talk at Autonomous Agents and Multiagent Systems Conference.
  Singapore. May 2016.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Yahoo! Big Thinkers Distinguished Lecture Series.
  Sunnyvale, CA. May 2015.
- "Practical RL: Representation, Interaction, Synthesis, and Mortality (PRISM)"
  Keynote talk at Florida Artificial Intelligence Research Society (FLAIRS) Conference.
  Hollywood, Florida. May 2015.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Department of EECS Distinguished Lecture, Vanderbilt University.
  Nashville, TN. December 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Department of Computer Science Distinguished Lecture, George Mason University.
  Fairfax, VA. November 2014.
- "Practical RL: Representation, Interaction, Synthesis, and Mortality (PRISM)"
  ML/Google Distinguished Lecture, Carnegie Mellon University.
  Pittsburgh, PA. November 2014.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  UCLA Electrical Engineering Distinguished Seminar Series.
  Los Angeles, CA. October 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Drexel University College of Computing & Informatics 6th Annual **Jay Modi Memorial Lecture**.
  Philadelphia, PA. March 2014.
- "PRISM – Practical RL: Representation, Interactions, Synthesis, and Mortality"
  Keynote talk at International Symposium on Artificial Intelligence and Math (ISAIM).
  Ft. Lauderdale, FL. January 2014.

- "PRISM – Practical RL: Representation, Interactions, Synthesis, and Mortality"
  Keynote talk at 9th European Workshop on Reinforcement Learning (EWRL).
  Athens, Greece. September 2011.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  UC Irvine Computer Science Department Distinguished Lecturer.
  Irvine, California. October 2009.
- "Teaching Teammates in Ad Hoc Teams"
  Keynote talk at 10th Bar-Ilan Symposium on the Foundations of Artificial Intelligence (BISFAI).
  Ramat-Gan, Israel. June 2009.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  Keynote talk at 4th IEEE Latin American Robotic Symposium (LARS).
  Monterrey Mexico. November 2007.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  UT Austin Visions of Computing Lecture.
  Austin, Texas. November 2007.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  IJCAI Computers and Thought Award Lecture.
  Hyderabad, India. January 2007.
- "Robot Learning"
  National Academy of Sciences spring symposium.
  Washington, DC. April 2006.
- "Machine Learning on Physical Robots"
  Keynote talk at International Conference on Computing (CIC).
  Mexico City. October 2004.
- "The Trading Agent Competition: Two Champion Adaptive Bidding Agents"
  Keynote talk at Computer Games Conference.
  Edmonton, Alberta. July, 2002.

INVITED TALKS

- "Human in the Loop Learning for Robot Navigation and Task Learning from Implicit Human Feedback"
  Cornell Robotics Seminar.
  New York, NY (Virtual). Autust 2023.
- "Ad Hoc Teamwork with Communication"
  ONR Science of Autonomy Meeting.
  Virtual. August 2023.
- "Autonomous Agents and Multiagent Systems for Social Good"
  Keynote Talk at RTX ISaCTN Symposium.
  Virtual. June 2023.
- "Coopernaut: End-to-End Driving with Cooperative Perception for Networked Vehicles"
  Invited Talk at **ICRA 2023 workshop on CoPerception: Collaborative Perception and Learning**.
  London, UK. June 2023.
- "Practical Reinforcement Learning: Lessons from 30 Years of Research"
  Invited Talk at **AAMAS 2023 workshop on Adaptive Learning Agents (ALA)**.
  London, UK. May 2023.
- "Human in the Loop Learning for Robot Navigation and Task Learning from Implicit Human Feedback"
  Invited Talks at **ICRA 2023 workshop on Life-Long Learning with Human Help (L3H2)**.
  London, UK. May 2023.
- "AI100: The One Hundred Year Study on AI"
  Headliner's Club.
  Austin, TX. May 2023.
- "AI100: The One Hundred Year Study on AI"

Keynote at the **Florida State Machine Learning Expo (MLX23)**.
Tallahassee, FL (Virtual). April 2023.

- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  Missouri University of Science and Technology Department of Computer Science Seminar Series.
  Rolla, MO (Virtual). April 2023.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  University of California San Diego Contextual Robotics Institue Seminar.
  San Diego, CA (Virtual). March 2023.
- "(Mis)design for Autonomous Driving and Accumulating Safety Rules from Catastrophic Action Effects"
  AAAI 2023 workshop on Deployable AI).
  Washington, DC. February 2023.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  Invited Talk at **NeurIPS 2022 workshop on Reinforcement Learning for Real Life**.
  New Orleans, LA. December 2022.
- "Human in the Loop Learning for Robot Navigation and Task Learning from Implicit Human Feedback"
  Invited Talk at **NeurIPS 2022 workshop on Human in the Loop Learning**.
  New Orleans, LA. December 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  Keynote at **University of Georgia AI Research Day**.
  Athens, GA (Virtual). November 2022.
- "The Value of Communication in Ad Hoc Teamwork"
  IROS 2022 workshop on Decision Making in Multi-Agent Systems.
  Kyoto, Japan (Virtual). October 2022.
- "(Mis)design for Autonomous Driving and Accumulating Safety Rules from Catastrophic Action Effects".
  IROS 2022 workshop on Behavior-driven Autonomous Driving in Unstructured Environments (BADUE).
  Kyoto, Japan (Virtual). October 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  Edge of Now (EON).
  Palm Springs, CA. October 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  University of Wiconsin seminar on Systems, Information, Learning, Optimization (SILO).
  Madison, WI (Virtual). September 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  9th International Conference on Signal Processing and Integrated Networks (SPIN).
  Amity University, Uttar Pradesh, India (virtual). August 2022.
- "Reward (Mis)design for Autonomous Driving and Accumulating Safety Rules from Catastrophic Action Effects"
  ICML 2022 workshop on Safe Learning for Autonomous Driving (SL4AD).
  Baltimore, MD (Virtual). July 2022.
- "Topics in Multiagent Learning Motivated by Ad Hoc Teamwork"
  Berkeley MARL Seminar.
  Virtual. July 2022.
- "The EMPATHIC Framework for Task Learning from Implicit Human Feedback"
  RLDM 2022 workshop on Reinforcement Learning with Humans in (and around) the Loop.
  Providence, RI. June 2022.
- "Grounded Simulation Learning for Sim2Real"
  ICLR 2022 workshop on Generalizable Policy Learning in the Physical World.
  Virtual. April 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  UT Joint Forum for AI (FAI) and Machine Learning Lab (ML+X) seminar.

Austin, TX. March 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  SysML Workshop.
  Austin, TX. March 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  NVIDIA GPU Technology Conference (GTC).
  Virtual. March 2022.
- "Autonomous Agents and Multiagent Systems for Social Good"
  ISI AI Seminar Series.
  Marina Del Rey, CA (Virtual). March 2022.
- "Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning"
  AAAI Workshop on Reinforcement Learning in Games.
  Virtual. February 2022.
- "Estimation and Control of Visitation Distributions for Reinforcement Learning"
  Highligted talk at **NVIDIA Reinforcement Learning Workshop**.
  Virtual. January 2022.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learning and Adaptive Planner Parameter Learning"
  Keynote talk at IEEE International Conference on Big Data.
  Virtual. December 2021.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learning and Adaptive Planner Parameter Learning"
  Keynote talk at 6th International Conference on Robotics and Automation Engineering (ICRAE).
  Guangzhou, China (virtual). November 2021.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learning and Adaptive Planner Parameter Learning"
  University of Sheffield Automatic Control and Systems Engineering department Seminar.
  Sheffield, UK (virtual). November 2021.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Oden Institute Babuška Forum.
  Austin, TX. November 2021.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learning and Adaptive Planner Parameter Learning"
  Oxford Robotics Institute Seminar.
  Oxford, UK (virtual). October 2021.
- "Grounded Simulation Learning for Sim2Real"
  Réseau Régional de Recherche en Robotique (R4) Seminar.
  Bordeaux, France. October 2021.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learning and Adaptive Planner Parameter Learning"
  Robert Bosch Centre for Data Science and Artificial Intelligence (RBCDSAI) LatentView Colloquium at IIT, Madras.
  Madras, India (virtual). September 2021.
- "Artificial Intelligence and Machine Learning Research"
  Jefferies Asia Forum.
  Hong Kong (virtual). September 2021.
- "Task Planning and Learning for General Purpose Service Robots"
  Keynote talk at 9th ICAPS Workshop on Planning and Robotics (PlanRob).
  Guangzhou, China (virtual). August 2021.
- "The RoboCup Grand Challenge for AI and Robotics"
  World Artificial Intelligence Conference.
  Shanghai, China (virtual). July 2021.
- "Coach-Player Multi-Agent Reinforcement Learning for Dynamic Team Composition"
  Lockheed Martin AI Summit.
  Virtual. July 2021.

- "Learning and Multiagent Reasoning for Autonomous Robots"
  Texas McCombs Real Estate Center.
  Austin, TX (virtual). May 2021.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learningand Adaptive Planner Parameter Learning"
  Keynote talk at The IV Brazilian Humanoid Robot Workshop (BRAHUR) and the V Brazilian Workshop on Service Robotics (BRASERO).
  Virtual. May 2021.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Secondmind Seminar.
  London, UK (virtual). May 2021.
- "Machine Learning for Robot Locomotion: Grounded Simulation Learning and Adaptive Planner Parameter Learning"
  Technion Robotics Seminar.
  Haifa, Israel (virtual). May 2021.
- "Autonomous Learning Agents and Multiagent Systems for Social Good"
  Keynote talk at AAMAS workshop on Autonomous Agents for Social Good (AASG)
  London, UK (virtual). May 2021.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation".
  Keynote at IEEE International Conference on Autonomous Robot Systems and Competitions.
  Santa Maria de Feira, Portugal (virtual). April 2021.
- "Topics in Multiagent Learning Motivated by Ad Hoc Teamwork"
  Seminar on Challenges and Opportunities for Multi-Agent Reinforcement Learning (COMARL).
  Virtual. February 2021.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  AAAI Workshop on Plan, Activity, and Intent Recognition (PAIR).
  Virtual. February 2021.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  NeurIPS Workshop on Cooperative AI.
  Virtual. December 2020.
- "Grounded Sim. Learning for Sim2Real with Connections to Off-Policy Reinforcement Learning"
  NeurIPS Workshop on Deep Reinforcment Learning.
  Virtual. December 2020.
- "Task-Motion Navigation Planning with Learning for Adaptable Mobile Service Robots"
  ICAPS Workshop on Bridging the Gap between Planning and Reinforcement Learning (PRL).
  Nancy, France (virtual). October 2020.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  West Virginia University Robotics Seminar Series.
  Morgantown, WV (virtual). September 2020.
- "Artificial Inteligence Research"
  Youth AI Lab and OpenCode Foundation Seminar.
  Virtual. September 2020.
- "Off-Policy Evaluation for Grounded Simulation Learning"
  ONR Science of Autonomy Meeting.
  Arlington, VA (virtual). August 2020.
- "Efficient Robot Skill Learning via Grounded Sim. Learning, Imitation Learning from Observation, and Off-Policy Reinforcement Learning"
  Institute of Advanced Studies Theoretical Machine Learning Seminar.
  Princeton, NJ (virtual). July 2020.
- "Grounded Simulation Learning"
  Army Reserach Lab Workshop on Synthetic Data in AI/ML.
  Virtual. July 2020.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Apptronik.
  Austin, TX (virtual). June 2020.

- "Learning Robot Behaviors from Other Agents" (with Garrett Warnell)
  ICRA 2020 Workshop on Interactive Robot Learning.
  Virtual. June 2020.
- "Imitation Learning from Observation"
  On-device Intelligence Workshop at Machine Learning and Systems (MLSys).
  Austin, TX. March 2020.
- "Task-Motion Planning with Learning for Adaptable Mobile Service Robots"
  AAAI 2020 Workshop on Generalization in Planning.
  New York, NY. February 2020.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Rice Computer Science Department Colloquium.
  Houston, TX. January 2020.
- "Machine Learning and Multiagent Reasoning for Autonomous Robots"
  JASON fall meeting.
  McLean, VA. November 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Cornell Computer Science Department Colloquium.
  Ithaca, NY. November 2019.
- "Adaptive Tolling for Multiagent Traffic Optimization and Imitation Learning from Observation"
  MIT Civil and Environmental Engineering Henry L. Pierce Laboratory Seminar Series.
  Boston, MA. November 2019.
- "Machine Learning and Artificial Intelligence for Autonomous Robots"
  Sage Perspectives on the Future Conference.
  Austin, TX. November 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Northwestern University CS Colloquium.
  Chicago, IL. October 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  CTRL-labs.
  New York, NY. August 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  IJCAI workshop on Scaling Up Reinforcement Learning (SURL).
  Macau, China. August 2019.
- "Learning Curricula for Transfer Learning in RL"
  ICML Workshop on Multi-Task and Lifelong Reinforcement Learning.
  Long Beach, CA. June 2019.
- "Adaptive Tolling for Multiagent Traffic Optimization"
  ICML Workshop on AI in Finance: Applications and Infrastructure for Multi-Agent Learning.
  Long Beach, CA. June 2019.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Silicon Labs Technical Symposium
  Austin, TX. May 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  SUNY Binghamthon Computer Science Invited Speaker Series.
  Binghamton, NY. April 2019.
- "The Robocup Challenge (2050) and Human in the Loop Machine Learning"
  U.S. Army Mad Scientist Conference.
  Austin, TX. April 2019.
- "Artificial Intelligence and Life in 2030"
  Washington University in St. Louis Division of Computational and Data Sciences Colloquium.
  St. Louis, MO. April 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  Washington University in St. Louis Computer Science & Engineering Colloquia Series.
  St. Louis, MO. April 2019.
- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"

University of Maryland Robotics Center Seminar.
College Park, MD. March 2019.

- "Efficient Robot Skill Learning: Grounded Sim. Learning and Imitation Learning from Observation"
  University of Washington Robotics Colloquium.
  Seattle, WA. February 2019.
- "Control Algorithms for Imitation Learning from Observation"
  RE•WORK Deep Learning Summit. San Francisco, CA. January 2019.
- "Knowledge and Planning for Autonomous Service Robots"
  Army Science Planning and Strategy Meeting Intelligent Systems with Real-Time Learning, Knowledge Bases, and Information Retrieval.
  Austin, TX. January 2019.
- "Control Algorithms for Imitation Learning from Observation"
  NeurIPS workshop on Learning by Instruction.
  Montreal, Canada. December 2018.
- "Control Algorithms for Imitation Learning from Observation"
  NeurIPS workshop on RL Under Partial Observability.
  Montreal, Canada. December 2018.
- "Control Algorithms for Imitation Learning from Observation"
  NeurIPS workshop on Imitation Learning and its Challenges in Robotics.
  Montreal, Canada. December 2018.
- "Artificial Intelligence: Applications and Developments in Industry"
  Huawei Technology Symposium.
  Dublin, Ireland. September 2018.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  Toyota Technical Institute — Chicago.
  Chicago, IL. August 2018.
- "Off-Policy Evaluation for Grounded Simulation Learning"
  ONR Science of Autonomy Meeting.
  Arlington, VA. August 2018.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  Federated AI for Robotics Workshop.
  Stockholm, Sweden. July 2018.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  McGill Computer Science Department Seminar.
  Montreal, CA. June 2018.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  ARM technical talk.
  Austin, TX. June 2018.
- "AI and Life in 2030"
  Huawei Strategic Technologies Workshop.
  Shenzhen, China. May 2018.
- "Machine Learning and Artificial Intelligence for Autonomous Robots"
  University of Chicago Alumni Association of Austin. Austin, TX. May 2018.
- "Lifelong Learning of Perception and Action in Autonomous Systems"
  Kickoff meeting of DARPA Lifelong Learning Machines (L2M) Program.
  Arlington, VA. March 2018.
- "AI and Robotics"
  Futures Panel at MBN conference.
  Seoul, South Korea. February 2018.
- "Machine Learning and Artificial Intelligence for Autonomous Robots"
  AAAS 2018 Flash Talk on Developing Robotics to Assist Human.
  Austin, TX. February 2018.
- "AI and Travel in 2030"
  HEDNA 2018 Austin Global Distribution Conference.
  Austin, TX. January 2018.

- "Artificial Intelligence and Life in 2030"
  UT Austin OLLI Seminar for Adult Growth and Enrichment (SAGE).
  Austin, TX. January 2018.
- "Robotics and AI"
  Keynote talk at SparkCognition Time Machine Conference.
  Austin, TX. December 2017.
- "Machine Learning and AI for Autonomous Robots"
  Filene Research Institute's big. bright. minds. conference.
  Austin, TX. December 2017.
- "Machine Learning and AI for Autonomous Robots"
  Michael and Susan Dell Foundation meeting.
  Austin, TX. November 2017.
- "Machine Learning and AI for Autonomous Robots"
  International Lawyers Network meeting.
  Austin, TX. November 2017.
- "Machine Learning and AI for Autonomous Robots"
  Keynote talk at NXP Foundation Women's STEM Leadership Forum for Women.
  Austin, TX. October 2017.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  Google Brain Tech Talk.
  Mountain View, CA. August 2017.
- "Machine Learning and AI for Autonomous Robots"
  Keynote talk at Deutsche Bank Internet Conference.
  Palo Alto, CA. August 2017.
- "Reasoning about Hypothetical Agent Behaviours and their Parameters"
  ONR Science of Autonomy Meeting.
  Arlington, VA. August 2017.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Sony Deep Learning Seminar.
  Nagoya, Japan. July 2017.
- "Intersection of the Future: Possibilities for Autonomous Vehicles"
  World Robotics x AI Seminar.
  Nagoya, Japan. July 2017.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  AAMAS 2017 workshop on Optimisation in Multi-Agent Systems (OptMAS).
  Sao Paulo, Brazil. May 2017.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  Intel Tech Talk.
  Austin, TX. April 2017.
- "Robot Skill Learning: From the Real World to Simulation and Back"
  Carnegie Mellon Robotics Institute Seminar.
  Pittsburgh, PA. March 2017.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Keynote talk at Synopsis SNUG Conference.
  Santa Clara, CA. March 2017.
- "Artificial Intelligence and Life in 2030"
  Keynote talk at IDG AGENDA17 Conference.
  Ponte Vedra Beach, FL. March 2017.
- "Artificial Intelligence and Life in 2030"
  IEEE Workshop on Advanced Robotics and its Social Applications (ARSO).
  Austin, TX. March 2017.
- "Artificial Intelligence and Life in 2030"
  Yale University CS Talk.
  New Haven, CT. February 2017.
- "Robot Skill Learning: From the Real World to Simulation and Back"

Yale University CS Talk.
New Haven, CT. February 2017.

- "Artificial Intelligence and Life in 2030"
  Sackler U.S.-U.K. Scientific Forum on the Frontiers of Machine Learning.
  Washington, DC. January 2017.
- "Cerebellar Learning for Robotics and Deep Multi-Robot Learning"
  NIPS 2016 workshop on Neurorobotics.
  Barcelona, Spain. December 2016.
- "Robots that Learn to Communicate through Natural Human Dialog"
  National Robotics Initiative 2016 PI Meeting.
  Arlington, VA. November 2016.
- "Human-Aware Navigation in Populated Indoor Environments"
  National Robotics Initiative 2016 PI Meeting.
  Arlington, VA. November 2016.
- "Intersections of the Future: Possibilities for Autonomous Vehicles"
  Keynote talk at Texas Wireless Summit.
  Austin, TX. October 2016.
- "Autonomous Learning Agents"
  Global Semiconductor Alliance (GSA) Executive Forum
  Menlo Park, CA. October 2016.
- "Artificial Intelligence and Life in 2030"
  UT Department of Computer Science Forum for AI.
  Austin, TX. September 2016.
- "Artificial Intelligence and Life in 2030"
  Gigaom Change.
  Austin, TX. September 2016.
- "AI and Robotics Research in Sony: Past, Present, and Future"
  IJCAI 2016 Industry Day Keynote talk (with Hiroaki Kitano and Masahiro Fujita).
  New York, NY. July 2016.
- "Deep Multiagent RL for Partially Observable Parameterized Environments"
  IJCAI 2016 Workshop on Deep Reinforcement Learning: Frontiers and Challenges.
  New York, NY. July 2016.
- "IML for Building-Wide Intelligence"
  IJCAI 2016 Workshop on Interactive Machine Learning.
  New York, NY. July 2016.
- "Future Trends in Machine Learning"
  AT&T Automation and Machine Learning Summit.
  Middleton, NJ. June 2016.
- "Reinforcement Learning for Sequential Decision Making"
  Exxon Mobil Cognitive Computing Event.
  Houston, TX. March, 2016.
- "Practical RL: Representation, Interaction, Synthesis, and Mortality (PRISM)"
  University of California at Berkeley EECS Seminar Series.
  Berkeley, CA. January 2016.
- "AI as a Gradual, Long-term, Community-Wide Effort"
  The NYU Future of AI Symposium.
  New York, NY. January 2016.
- "Towards a Unification of Pardigmatic Realizations of Multiagent Systems"
  NIPS 2015 Workshop on Learning, Inference and Control of Multi-Agent Systems.
  Montreal, Canada. December 2015.
- "Towards a Greater Understanding of the Cerebellum via Experiments Motivated by Machine Learning"
  AFOSR Program Meeting: Computational Cognition and Machine Intelligence Program.
  Arlington, VA. November 2016.
- "HRI for Building-Wide Intelligence"

AAAI Fall Symposium on AI for Human-Robot Interaction.
Arlington, VA. November 2015.

- "Practical RL: Representation, Interaction, Synthesis, and Mortality (PRISM)"
  AAAI Fall Symposium on Embedded Machine Learning.
  Arlington, VA. November 2015.
- "Practical Reinforcement Learning for Robots and Autonomous Agents"
  Neuroscience Seminar Series, UT Austin.
  Austin, TX. October 2015.
- "Machine Learning Opportunities in Marketing"
  Forbes CMO Excursions.
  Palo Alto, CA. September 2015.
- "Making Friends on the Fly: Advances in Ad Hoc Teamwork"
  ONR Science of Autonomy Meeting.
  Washington, DC. August 2015.
- "Practical RL: Representation, Interaction, Synthesis, and Mortality (PRISM)"
  Reinforcement Learning and Decision Making Conference (RLDM).
  Edmonton, Alberta, Canada. June 2015.
- "Learning Agents for Sustainable Energy"
  Plenary speaker at ExxonMobil's Longer Range Research Meeting.
  Baltimore, MD. May 2015.
- "Autonomous Robots: from robot soccer to driverless cars"
  Keynote talk at Harvard/USC Real Estate Summit.
  Aspen, CO. February 2015.
- "A Neuroevolution Approach to Atari Game Playing"
  AAAI Workshop on General Competency in Video Games.
  Austin, TX. January 2015.
- "Robots at the Boundary of Robotics and AI"
  AAAI NSF Sponsored Workshop: Research Issues at the Boundary of AI and Robotics.
  Austin, TX. January 2015.
- "Transfer Learning for Autonomous Robots"
  DARPA/ISAT workshop on Training of Things.
  San Francisco, CA. November 2014.
- "Transfer Learning for Autonomous Robots"
  AAAI Fall Symposium on Knowledge, Skill, and Behavior Transfer in Autonomous Robots.
  Arlington, VA. November 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Center for Perceptual Systems Seminar Series, UT Austin.
  Austin, TX. October 2014.
- "Autonomous Robots: from Robot Soccer to Driverless Cars"
  PREA Institutional Investor Real Estate Conference.
  Los Angeles, CA. Septeber 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Cognitive Science Seminar Series, UT Austin.
  Austin, TX. September 2014.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  AAAI Workshop on Multiagent Interaction without Prior Coordination (MIPC).
  Quebec City, Quebec, Canada. July 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Bar-Ilan University Computer Science colloquium.
  Ramat Gan, Israel. July 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Word for Word Lecture Series.
  Austin, TX. June 2014.
- "Learning Agents for Sustainable Energy"
  3M.

Austin, TX. June 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  Keynote talk at REFIC Spring Real Estate Conference.
  Austin, TX. May 2014.
- "Learning Agents for Sustainable Energy"
  AAMAS workshop on Trading Agent Design and Analysis (TADA).
  Paris, France. May 2014.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  Game Theory and Human Behavior (GTHB) Symposium.
  Los Angeles, USA. April 2014.
- "Learning Agents for Sustainable Energy"
  Texas-Wisconsin-California Control Consortium.
  Austin, TX. April 2014.
- "Learning and Multiagent Reasoning for Autonomous Robots"
  University of Michigan CSE Colloquium.
  Ann Arbor, MI. January 2014.
- "Intersections of the Future: Leveraging Fully Autonomous Vehicles"
  Andreessen Horowitz Academic Round Table.
  Menlo Park, CA. September 2013.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  16th Annual Transportation and Infrastructure Summit.
  Dallas, TX. August 2013.
- "Can Robots Play Soccer Better than People?"
  TEDxYouth@Austin.
  Austin, TX. March 2013.
- "Solve for Traffic Congestion and Fatalities"
  Google Solve for [X] event at SXSW.
  Austin, TX. March 2013.
- "UT Austin Villa: RoboCup 2012 Champions in the Standard Platform League"
  Aldebaran Webinar.
  February 2013.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  IEEE CS Austin Section.
  Austin, TX. August 2012.
- "UT Austin Villa: RoboCup 2012 Champions in the Standard Platform and 3D Simulation Leagues"
  AAAI 2012 Workshop on Cognitive Robotics.
  Toronto, Ontario, Canada. July 2012.
- "Generalized Model Learning for Reinforcement Learning on a Humanoid Robot"
  Aldebaran Tech Day.
  Mexico City, Mexico. June 2012.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  American Association for the Advancement of Science (AAAS).
  Vancouver, Canada. February 2012.
- "Autonomous Robots Playing Soccer and Traversing Intersections"
  UT **Learning Activities for Mature People (LAMP)**.
  Austin, TX. January 2012.
- "Autonomous Robots Playing Soccer and Traversing Intersections"
  Lakeway Men's Breakfast Club.
  Lakeway, TX. January 2012.
- "Active Learning for Sequential Sensing and Efficient Human Interactions in Collaborative Human-Robot Teams"
  ONR Science of Autonomy Meeting.
  Arlington, VA. December 2011.
- "Machine Learning and Multiagent Reasoning: from Robot Soccer to Autonomous Traffic"
  Texas A&M Computer Science Department Symposium.

College Station, TX. December 2011.
- "Ad Hoc Autonomous Agent Teams: Collaboration without Pre-Coordination"
  AAAI Fall Symposium on Multiagent Coordination under Uncertainty.
  Washington, DC. November 2011.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  AAMAS 2011 Workshop on Agents and Data Mining Interaction.
  Taipei, Taiwan. May 2011.
- "Human-Assisted Reinforcement Learning"
  ONR Science of Autonomy Meeting.
  Arlington, VA. April 2011.
- "Machine Learning and Multiagent Reasoning: from robot soccer to autonomous traffic"
  Texas State Computer Science Department Seminar.
  San Marcos, TX. March 2011.
- "Machine Learning and Multiagent Reasoning: from robot soccer to autonomous traffic"
  Virginia Tech Computer Science Department Seminar.
  Blacksburg, VA. March 2011.
- "Machine Learning and Multiagent Reasoning: from robot soccer to autonomous traffic"
  Baylor Physics Department Seminar.
  Waco, TX. December 2010.
- "Machine Learning and Multiagent Reasoning: From Robot Soccer to Autonomous Traffic'
  Johns Hopkins Computer Science Seminar.
  Baltimore, MD. November 2010.
- "Autonomous Robots Playing Soccer and Traversing Intersections"
  Hot Science - Cool Talks Outreach Lecture Series.
  Austin, TX. October 2010.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  Blue Knot Austin.
  Austin, TX. July 2010.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  Taiwan Agent Summer School.
  Hsinchu, Taiwan. June 2010.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  Taiwan Agent Summer School.
  Hsinchu, Taiwan. June 2010.
- "Machine Learning on Physical Robots"
  Seminar in Mechanical Engineering Department., UT Austin.
  Austin, TX. April 2010.
- "Autonomous Robots Playing Soccer and Traversing Intersections"
  TEDxUT.
  Austin, TX. April 2010.
- "Progress in Artificial Intelligence: The Challenge Problem Approach"
  SxSW Interactive, panel on *AI 2010: Wall-e Or Rise Of The Machines?*
  Austin, TX. March 2010.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  National Instruments.
  Austin, TX. January 2010.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  IEEE Latin-American Summer School on Robotics.
  Santiago, Chile. December 2009.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  IEEE Latin-American Summer School on Robotics.
  Santiago, Chile. December 2009.
- "Intersections of the Future: Using Fully Autonomous Vehicles"
  Robotics Seminar at University Polytecnica de Catalonya.
  Barcelona, Spain. November 2009.

- "Teaching Teammates in Ad Hoc Teams"
  UT Department of Computer Sciences Forum for AI and UTCS Colloquium.
  Austin, TX. September 2009.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  Technion CS Department Pixel Club lecture.
  Haifa, Israel. June 2009.
- "How Machines Learn: From Robot Soccer to Autonomous Traffic"
  HEMDA Center for Science Education.
  Tel Aviv, Israel. June 2009.
- "Teaching Teammates in Ad Hoc Teams"
  Game theory seminar at Hebrew University Center for Rationality.
  Jerusalem, Israel. May 2009.
- "Teaching Teammates in Ad Hoc Teams"
  AAMAS 2009 workshop on Adaptive Learning Agents.
  Budapest, Hungary. May 2009.
- "Generalization in Reinforcement Learning"
  Hebrew University Machine Learning Club Talk.
  Jerusalem, Israel. April 2009. 4/23/09
- "Machine Learning on Physical Robots"
  Hebrew University CS Coloquium.
  Jerusalem, Israel. April 2009.
- "Generalization in Reinforcement Learning"
  Technion EE Guest Lecture.
  Haifa, Israel, March 2009.
- "Machine Learning on Physical Robots"
  Haifa Mini-Workshop on Machine Learning: Theory and Practice.
  Haifa, Israel. March 2009.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  Ben Gurion University.
  Beér Sheva, Israel. February 2009.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  IBM Haifa Research Lab.
  Haifa, Israel. December 2009.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  The Israel Association for Artificial Intelligence Symposium.
  Ashkelon, Israel. November 2008.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  International Workshop on Market-Based Control of Complex Computational Systems.
  Liverpool, UK. September 2008.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  University of Alberta AI Seminar.
  Edmonton, Alberta. March 2007.
- "Learning and Multiagent Reasoning for Autonomous Agents"
  University of Southern Alabama.
  Mobile, Alabama. February 2007.
- "Embracing Mobility"
  DARPA kickoff meeting on Information Theory for Mobile Ad-Hoc Networks.
  Chicago, IL. November 2006.
- "Layered Learning on Physical Robots"
  University of Amsterdam.
  Amsterdam, The Netherlands. November 2006.
- "Robust Autonomous Color Learning on a Mobile Robot"
  Robotics Institute Seminar Series, Carnegie Mellon University.
  Pittsburgh, PA. October 2006.
- "Robust Autonomous Color Learning on a Mobile Robot"

Center for Perceptual Systems Seminar Series, UT Austin.
Austin, TX. October 2006.

- "Machine Learning and Multiagent Systems: From robot soccer to autonomous traffic"
  Lockheed Martin Aeronautics.
  Fort Worth, TX. October 2006.
- "Machine Learning and Multiagent Systems: From robot soccer to autonomous traffic"
  IEEE MetroCon.
  Arlington, TX. October 2006.
- "RoboCup: The Robot Soccer World Cup"
  Department of Kinesiology and Health Education, UT Austin.
  Austin, TX. September 2006.
- "State Abstraction Discovery, and Layered Learning on Physical Robots"
  AAMAS workshop on Hierarchical Autonomous Agents and Multiagent Systems.
  Hakodate, Japan. May 2006.
- "Machine Learning on Physical Robots"
  GRASP seminar series at University of Pennsylvania.
  Philadelphia, PA. March 2006.
- "Robot Learning"
  National Academy of Sciences Frontiers of Science Symposium.
  Irvine, CA. October 2005.
- "Reinforcement Learning for GGP"
  DARPA kickoff meeting on Transfer Learning.
  Palo Alto, CA. October 2005.
- "Behavior Transfer for Value-Function-Based Reinforcement Learning"
  Cognition & Perception Seminar Series, Psychology Department, UT Austin.
  Austin, TX. September 2005.
- "Machine Learning and Multiagent Systems: From robot soccer to autonomic computing"
  IBM Technical Vitality Council.
  Austin, TX. September 2005.
- "The Trading Agent Competition: Two Champion Adaptive Bidding Agents"
  Intelligent Systems Seminar Series, McCombs School of Business, UT Austin.
  Austin, TX. September 2005.
- "Practical Vision-Based Monte Carlo Localization on a Legged Robot"
  IJCAI Workshop on Reasoning with Uncertainty in Robotics.
  Edinburgh, Scotland. July 2005.
- "RoboCup as an Introduction to Multiagent Systems and Research"
  AAMAS Workshop on Teaching Multiagent Systems.
  Utrecht, Netherlands. July 2005.
- "Multi-Robot Learning for Continuous Area Sweeping"
  AAMAS Workshop on Learning and Adaptation in Multiagent Systems.
  Utrecht, Netherlands. July 2005.
- "Speeding up Reinforcement Learning with Behavior Transfer"
  RoboCup US Open.
  Atlanta, GA. May 2005.
- "Scaling Up Reinforcement Learning via Task Transfer"
  DARPA bidder's conference on Transfer Learning.
  Washington, DC. March 2005.
- "Machine Learning on Physical Robots"
  Bar Ilan University.
  Ramat Gan, Israel. December 2004.
- "Adversarial Agents and Other Agent Topics"
  Air Force Research Lab.
  Rome, New York. July 2004.
- "Embodied Agents"
  Americas' School on Agents and Multiagent Systems.

New York, New York. July 2004.
- "Coaching, Advising, and Task Transfer for Multiagent Learning"
  Information Science and Technology (ISAT) study on Multiagent/Distributed Learning.
  Boston, Massachusetts. June 2004.
- "Robot soccer: competitions and research"
  National Instruments Scholarship for Excellence reception.
  Austin, TX. June 2004.
- "The RoboCup Challenge: Progress and Research Results in Robot Soccer"
  UT Mechanical Engineering Dept. Robotics Research Group.
  Austin, TX. May 2004.
- "The RoboCup Challenge: Progress and Research Results in Robot Soccer"
  UT Department of Computer Sciences Forum for AI.
  Austin, TX. November 2003.
- "Policy Gradient Reinforcement Learning for Fast Quadrupedal Locomotion"
  DARPA PI Meeting on Navigation, Locomotion, and Articulation.
  Washington, DC. Nov. 2003.
- "Autonomous Learning Agents in Dynamic, Multiagent Environments"
  IROS-2003 Workshop on Learning and Evolution in MAS.
  Las Vegas, Nevada. October, 2003.
- "The RoboCup Challenge: Progress and Research Results in Robot Soccer"
  University of Science and Technology China (USTC).
  Hefei, China. October, 2003.
- "Layered Learning towards Autonomic Computing"
  IJCAI-2003 Workshop on AI and Autonomic Computing.
  Acapulco, Mexico. August 2003.
- "Autonomous Bidding Agents and the Power of Threats" (with Michael Littman)
  CMU Machine Learning Lunch Seminar.
  Pittsburgh, Pennsylvania. April 2003.
- "Machine Learning Research in the RoboCup Simulation League"
  First RoboCup American Open Workshop.
  Pittsburgh, Pennsylvania. April 2003.
- "Autonomous Learning Agents in Dynamic, Multiagent Environments"
  UT College of Natural Sciences Advisory Council Meeting.
  Austin, TX. April 2003.
- "Scaling Reinforcement Learning toward RoboCup Soccer"
  NIPS 2002 workshop on Multi-Agent Learning.
  Whistler, British Columbia, Canada. December 2002.
- "Autonomous Learning Agents in Dynamic, Multiagent Environments"
  University of Texas School of Library and Information Science.
  Austin, TX. September 2002.
- "The Trading Agent Competition: Two Champion Adaptive Bidding Agents"
  UT Department of Computer Sciences Forum for AI.
  Austin, TX. September 2002.
- "Multiagent Competitions and Research: Lessons from RoboCup and TAC"
  Trading Agent Competition Workshop.
  Edmonton, Alberta, Canada. July, 2002.
- "Autonomous Learning Agents in Dynamic, Multiagent Environments: Auctions and Soccer"
  Santa Fe Institute Collective Cognition Workshop.
  Santa Fe, New Mexico. January 2002.
- "Autonomous Learning Agents in Dynamic, Multiagent Environments: Auctions and Soccer"
  University of Alberta AI Seminar.
  Edmonton, Alberta. November 2001.
- "Autonomous Bidding Agents"
  Brookings Institution Workshop on Multi-Agent Computation in Natural and Artificial Economies.
  Washington, DC. October 2001.

- "Layered Learning in Multi-Agent Systems: A Winning Approach to Robotic Soccer"
  IEEE Computer Society and DigiPen Institute of Technology.
  Seattle, Washington. July 2001.
- "Layered Learning in Multi-Agent Systems: A Winning Approach to Robotic Soccer"
  The Boeing Company.
  Seattle, Washington. July 2001.
- "Layered Learning in Multi-Agent Systems"
  Multi-Strategy Learning Workshop.
  Guimarães, Portugal. June 2000.
- "The RoboCup Challenge"
  NASA Goddard Space Flight Center.
  Greenbelt, Maryland. March 2000.
- "The RoboCup Challenge"
  Ohio University.
  Athens, Ohio. February 2000.
- "The RoboCup Challenge"
  IEEE Real-Time Systems Symposium.
  Phoenix, Arizona. December, 1999.
- "Layered Learning in Multi-Agent Systems"
  Machines That Learn Workshop.
  Snowbird, Utah. April 1998.
- "Layered Learning in Multi-Agent Systems"
  SRI International.
  Palo Alto, California. November 1997.
- "Layered Learning in Multi-Agent Systems"
  University of Washington.
  Seattle, Washington. November 1997.
- "Task Decomposition and Dynamic Role Assignment for Real-Time Strategic Teamwork"
  Electrotechnical Laboratory (ETL).
  Tsukuba, Japan. August 1997.
- "Machine Learning for Agent Control in Real-time Multi-Agent Domains"
  Workshop on Intelligent Robotic Agents.
  Porto Alegre, Brazil. March 1997.
- "Layered Learning in the Soccer Server"
  Electrotechnical Laboratory (ETL).
  Tsukuba, Japan. November 1996.
- "Layered Learning in the RoboCup Soccer Server"
  Osaka University.
  Osaka, Japan. November 1996.
- "Building a Dedicated Robotic Soccer System"
  Korean Advanced Institute of Science and Technology (KAIST).
  Taejon, Korea. August 1996.
- "Towards Collaborative and Adversarial Learning: A Case Study in Robotic Soccer"
  Naval Research Labs (NRL).
  Washington DC. July 1996.
- "FLECS: Planning with a Flexible Commitment Strategy"
  NASA Jet Propulsion Laboratory (JPL).
  Pasadena, California. July 1995.
- "FLECS: Planning with a Flexible Commitment Strategy"
  USC Intelligent Software Institute (ISI).
  Marina Del Rey, California. July 1995.

PUBLICATIONS

All listed publications are available and cross-listed by *type*, *date*, *topic*, and *co-author* at
`http://www.cs.utexas.edu/users/pstone/papers.html`

Books

1. Xiaoping Chen, **Peter Stone**, Luis Enrique Sucar, and Tijn van der Zant, editors. *RoboCup-2012: Robot Soccer World Cup XVI*, volume 7500 of *Lecture Notes in Artificial Intelligence*. Springer Verlag, Berlin, 2013.

2. Kagan Tumer, Pinar Yolum, Liz Sonenberg, and **Peter Stone**, editors. *Proceedings of the Tenth International Conference on Autonomous Agents and Multiagent Systems*. International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), May 2011.

3. Michael P. Wellman, Amy Greenwald, and **Peter Stone**. *Autonomous Bidding Agents: Strategies and Lessons from the Trading Agent Competition*. MIT Press, 2007. (monograph)

4. **Peter Stone**. *Intelligent Autonomous Robotics: A Robot Soccer Case Study*. Synthesis Lectures on Artificial Intelligence and Machine Learning. Morgan & Claypool Publishers, 2007. (monograph)

5. **Peter Stone** and Gerhard Weiss, editors. *Proceedings of the Fifth International Joint Conference on Autonomous Agents and Multiagent Systems*. Association for Computing Machinery (ACM), May 2006.

6. **Peter Stone**, Tucker Balch, and Gerhard Kraetzschmar, editors. *RoboCup-2000: Robot Soccer World Cup IV*. volume 2019 of Lecture Notes in Artificial Intelligence. Springer Verlag, Berlin, 2001.

7. **Peter Stone**. *Layered Learning in Multiagent Systems: A Winning Approach to Robotic Soccer*. MIT Press, 2000. (monograph)

Journal Articles

8. Peter R. Wurman, **Peter Stone**, and Michael Spranger. Improving artificial intelligence with games. *Science*, 381:147–8, July 2023.

9. Keya Ghonasgi, Reuth Mirsky, Nisha Bhargava, Adrian M Haith, **Peter Stone**, and Ashish D Deshpande. Kinematic coordinations capture learning during human-exoskeleton interaction. *Scientific Reports*, 13:10322, June 2023.

10. Varun Kompella, Thomas Walsh, Samuel Barrett, Peter Wurman, and **Peter Stone**. Event tables for efficient experience replay. *Transactions on Machine Learning Research* (TMLR), 2023.

11. Xiaohan Zhang, Saeid Amiri, Jivko Sinapov, Jesse Thomason, **Peter Stone**, and Shiqi Zhang. Multimodal embodied attribute learning by robots for object-centric action policies. *Autonomous Robots*, March 2023.

12. Megan M. Baker, Alexander New, Mario Aguilar-Simon, Ziad Al-Halah, Sébastien M. R. Arnold, Ese Ben-Iwhiwhu, Andrew P. Brna, Ethan Brooks, Ryan C. Brown, Zachary Daniels, Anurag Daram, Fabien Delattre, Ryan Dellana, Eric Eaton, Haotian Fu, Kristen Grauman, Jesse Hostetler, Shariq Iqbal, Cassandra Kent, Nicholas Ketz, Soheil Kolouri, George Konidaris, Erik Learned-Miller Dhireesha Kudithipudi, Seungwon Lee, Michael L. Littman, Jorge A. Mendez Sandeep Madireddy, Eric Q. Nguyen, Christine D. Piatko, Praveen K. Pilly, Aswin Raghavan, Abrar Rahman, Santhosh Kumar Ramakrishnan, Neale Ratzlaff, Andrea Soltoggio, **Peter Stone**, Indranil Sur, Zhipeng Tang, Saket Tiwari, Kyle Vedder, Felix Wang, Zifan Xu, Angel Yanguas-Gil, Harel Yedidsion, Shangqun Yu, and Gautam K. Vallabha. A domain-agnostic approach for characterization of lifelong learning systems. *Neural Networks*, pages 274–96, March 2023.

13. W. Bradley Knox, Alessandro Allievi, Holger Banzhaf, Felix Schmitt, and **Peter Stone**. Reward (mis)design for autonomous driving. *Artificial Intelligence* (AIJ), 316:103829, 2023.

14. Haresh Karnan, Anirudh Nair, Xuesu Xiao, Garrett Warnell, Soren Pirk, Alexander Toshev, Justin Hart, Joydeep Biswas, and **Peter Stone**. Socially compliant navigation dataset (SCAND): A large-scale dataset of demonstrations for social navigation. *Robotics and Automation Letters* (RA-L), 7:11807–14, presented at *International Conference on Intelligent Robots and Systems* (IROS), October 2022.

15. Kingsley Nweye, Bo Liu, Nagy Zoltan, and **Peter Stone**. Real-world challenges for multi-agent reinforcement learning in grid-interactive buildings. *Journal of Energy and AI*, September 2022.

16. Xuesu Xiao, Zizhao Wang, Zifan Xu, Bo Liu, abd Gauraang Dhamankar, Anirudh Nair, Garrett Warnell, and **Peter Stone**. APPL: Adaptive planner parameter learning. *Robotics and Autonomous Systems* (RAS), May 2022.

17. Yifeng Zhu, **Peter Stone**, and Yuke Zhu. Bottom-up skill discovery from unsegmented demonstrations for long-horizon robot manipulation. *IEEE Robotics and Automation Letters* (RA-L), 7:4126–33, April 2022.

18. Xuesu Xiao, Bo Liu, Garrett Warnell, and **Peter Stone**. Motion planning and control for mobile robot navigation using machine learning: a survey. *Autonomous Robots*, 46(5):569–97, March 2022.

19. Peter R. Wurman, Samuel Barrett, Kenta Kawamoto, James MacGlashan, Kaushik Subramanian, Thomas J. Walsh, Roberto Capobianco, Alisa Devlic, Franziska Eckert, Florian Fuchs, Leilani Gilpin, Varun Kompella, Piyush Khandelwal, HaoChih Lin, Patrick MacAlpine, Declan Oller, Craig Sherstan, Takuma Seno, Michael D. Thomure, Houmehr Aghabozorgi, Leon Barrett, Rory Douglas, Dion Whitehead, Peter Duerr, **Peter Stone**, Michael Spranger, , and Hiroaki Kitano. Outracing champion gran turismo drivers with deep reinforcement learning. *Nature*, 62:223–28, Feb. 2022.

20. Zizhao Wang, Xuesu Xiao, Bo Liu, Garrett Warnell, and **Peter Stone**. Apple: Adaptive planner parameter learning from evaluative feedback. *IEEE Robotics and Automation Letters* (RA-L), presented at International Conference on Intelligent Robots and Systems (IROS), October 2021.

21. Xuesu Xiao, Joydeep Biswas, and **Peter Stone**. Learning inverse kinodynamics for accurate high-speed off-road navigation on unstructured terrain. *IEEE Robotics and Automation Letters* (RA-L), presented at International Conference on Robotics and Automation(ICRA), July 2021.

22. Ruohan Zhang, Faraz Torabi, Garrett Warnell, and **Peter Stone**. Recent advances in leveraging human guidance for sequential decision-making tasks. *Autonomous Agents and Multi-Agent Systems* (JAAMAS), 35:31, June 2021.

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PROFESSIONAL MEMBERSHIPS

- Association for the Advancement of Artificial Intelligence, Fellow (AAAI)
- Institute of Electrical and Electronic Engineers, Fellow (IEEE)
- American Association for the Advancement of Science, Fellow (AAAS)
- Association for Computing Machinery, Fellow (ACM)

PRESS

Interviewed and quoted regarding research several times on television, on radio, and in magazines and newspapers including CNN, NPR, BBC, The New York Times, Wall Street Journal, USA Today, Pittsburgh Post-Gazette, Scientific American, and Austin American Statesman. Appeared on PBS *Scientific American Frontiers* hosted by Alan Alda.
Links to stories available at `http://www.cs.utexas.edu/users/pstone/press.shtml`

PERSONAL

Married, three children — born 1998, 2000, 2002.
Citizenship: U.S.

- Violin — performed with the CMU philharmonic in Carnegie Hall, NY.
- Soccer — played in a semi-professional league, tried out for Major League Soccer.
- Languages — English (native), French and Hebrew (conversational).