# Karol Hausman

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EMAIL:   hausmankarol@gmail.com

## RESEARCH INTEREST

I am interested in enabling robots to autonomously acquire general-purpose skills with minimal supervision in real-world environments.

## WORK EXPERIENCE

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|---|---|
| 04.2021 - Present | Adjunct Professor at **Stanford University**, Stanford, USA |
| 06.2018 - Present | Staff Research Scientist at **Google Brain**, Mountain View, USA<br>Robot Manipulation Lead. Lead for the Brain Moonshot (20+ FTEs).<br>10.2022 promoted from Senior Research Scientist.<br>10.2020 promoted from Research Scientist. |
| 2013 - 2018 | Short-Term Visiting Researcher Positions (concurrent with PhD) at:<br>**Google DeepMind**, London, UK<br>Adviser: Prof. M. Riedmiller<br>**Qualcomm Research**, San Diego, CA<br>Adviser: Dr. C. Wierzynski<br>**NASA Jet Propulsion Laboratory**, Pasadena, CA<br>Adviser: Dr. S. Weiss, Dr. L. Matthies<br>**Bosch Research Center**, Palo Alto, CA<br>Adviser: Dr. S. Osentoski, Dr. S. Niekum |
| 12.2011 - 03.2013 | Research Assistant at **Technical University Munich**, Munich, DE<br>Adviser: Dr. D. Pangercic, Prof. M. Beetz |

## EDUCATION

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|---|---|
| 08.2013 - 05.2018 | Ph.D. in Computer Science, **University of Southern California**<br>Adviser: Prof. G. Sukhatme<br>Thesis: "Rethinking Perception-Action Loops via Interactive Perception and Learned Representations"<br>*summa cum laude* |
| 10.2011 - 10.2013 | M.Sc. in Robotics, **Technical University Munich**<br>Adviser: Prof. D. Cremers<br>Thesis: "Object Segmentation and Recognition using Interactive Perception"<br>*summa cum laude*, ranked $2^{nd}$ in the graduating class |
| 10.2007 - 09.2012 | M.Sc. and B.Sc. in Mechatronics, **Warsaw University of Technology**<br>*summa cum laude*, ranked $1^{st}$ in the graduating class |
| 10.2009 - 07.2010 | Faculty of Philosophy and Sociology, **University of Warsaw**<br>Completed one year coursework towards a B.A. Degree in Philosophy<br>ranked $1^{st}$ in the class |

# Teaching

- Stanford Deep Multi-Task and Meta Learning (CS330) 2021: Co-instructor
- Stanford Deep Multi-Task and Meta Learning (CS330) 2020: Co-lecturer (4 lectures)
- Stanford Principles of Robot Autonomy II (CS237B) 2022: Guest lecture "Reinforcement Learning as a Data Sponge"
- Stanford Safe and Interactive Robotics (CS233) 2022: Guest lecture "Towards Scalable Robot Imitation and Reinforcement Learning"
- UC Berkeley Deep Reinforcement Learning (CS285) 2022: Guest lecture "Reinforcement Learning as a Data Sponge"
- UC Berkeley Deep Reinforcement Learning (CS285) 2019: Guest lecture "Multi-Task RL: a Curse or a Blessing?"

# Invited Talks

- "Language as a Connective Tissue" 2022 NeurIPS Robot Learning Workshop, 2022.
- "Preventing the Next Bitter Lesson", BAIR workshop on ML for Robotics with Large Datasets, 2022.
- "Reinforcement Learning as a Data Sponge", NeurIPS Deep Reinforcement Learning Workshop, 2021.
- "Unordered Thoughts of Machines", Inaugural lecture at the University of Warsaw to open the academic year in Poland, 2021.
- "Persistent Robot Learning at Scale", Google Machine Learning and Robot Safety Workshop, 2021.
- OpenAI Robotics Symposium, 2020. *postponed*
- "Unclogging Robot Learning", RSS 2020 Workshop on Structured Approaches to Robot Learning for Improved Generalization, 07.2020.
- "How to Evaluate a Generalist? Benchmarks in Robot Learning.", Benchmarking in Robotics Workshop, 08.2019.
- "Skill Representation and Supervision in Multi-Task RL.", ICML 2019 Workshop on Multi-Task and Lifelong Reinforcement Learning, 06.2019.
- "Robot Skill Embeddings and their Applications.", Re-Work 06.2018, 01.2019.
- "Learning Representations for Perception-Action Loops", Nvidia, 11.2017, Google Brain, 12.2017, UC Berkeley, 03.2018.
- "Rethinking Perception-Action Loops", University of Washington, 05.2017, MIT, 05.2017, University of Pennsylvania, 05.2017, Google DeepMind, 07.2017.
- "Multi-Sensor Fusion with Seamless Sensor Switching and Trajectory Optimization for Self-Calibration", Google Tango, 10.2016, UCLA, 10.2016, Qualcomm, 06.2016.
- "Active and Interactive Perception", Stanford, 10.2016.
- "Active and Interactive Perception", NASA JPL, 09.2015.
- "Robotic Explorers for Environmental Monitoring", Google, 05.2014.
- "Active Articulation Model Estimation", Bosch Research Center, 10.2014.
- "Interactive Object Segmentation and Recognition", TU Berlin, 12.2012.

## Media Coverage

- WIRED, Washington Post, CNET, MIT Technology Review, Techcrunch, New York Times, The Verge, Fast Company

## Journal Articles and Book Chapters

J6. R. Julian*, E. Heiden*, Z. He, H. Zhang, S. Schaal, J. Lim, G. Sukhatme, **K. Hausman**. **Scaling Simulation-to-Real Transfer by Learning a Latent Space of Robot Skills**, *In The International Journal of Robotics Research (IJRR)*, 2020.

J5. J. Preiss, **K. Hausman**, G. Sukhatme, S. Weiss. **Simultaneous Self-Calibration and Navigation using Trajectory Optimization**, *In The International Journal of Robotics Research (IJRR)*, 2017.

J4. **K. Hausman**, J. Preiss, G. Sukhatme, S. Weiss. **Occlusion-Aware Trajectory Optimization for Self-Calibration with Application to UAVs**, *In IEEE Robotics and Automation Letters (RA-L)*, 2017.

J3. **K. Hausman***, J. Bohg*, B. Sankaran*, O. Brock, D. Kragic, S. Schaal, G. Sukhatme. **Interactive Perception: Leveraging Action in Perception and Perception in Action**, *In The IEEE Transactions on Robotics (T-RO)*, 2017.

J2. **K. Hausman**, J. Mueller, A. Hariharan, N. Ayanian, G. Sukhatme. **Cooperative Multi-Robot Control for Target Tracking with Onboard Sensing**, *In The International Journal of Robotics Research (IJRR)*, 2015.

J1. **K. Hausman**, D. Pangercic, Z. Marton, F. Belent-Benczedi, C. Bersch, M. Gupta, G. Sukhatme, M. Beetz. **Interactive Segmentation of Textured and Textureless Objects**, *In Handling Uncertainty and Networked Structure in Robot Control*, L. Busoniu and L. Tamas (eds.), Springer, 2015.

## Conference Publications

C39. J. Liang, W. Huang, F. Xia, P. Xu, **K. Hausman**, B. Ichter, P. Florence, A. Zeng. **Code as Policies: Language Model Programs for Embodied Control**, *under submission*, 2022.

C38. W. Huang*, F. Xia*, T. Xiao*, H. Chan, J. Liang, P. Florence, A. Zeng, J. Tompson, I. Mordatch, Y. Chebotar, P. Sermanet, N. Brown, T. Jackson, L. Luu, S. Levine, **K. Hausman**, B. Ichter. **Inner Monologue: Embodied Reasoning through Planning with Language Models**, *Conference on Robot Learning (CoRL)*, 2022.

C37. K. Burns, T. Yu, C. Finn, **K. Hausman**. **Offline Reinforcement Learning at Multiple Frequencies**, *Conference on Robot Learning (CoRL)*, 2022.

C36. Michael Ahn*, Anthony Brohan*, Noah Brown*, Yevgen Chebotar*, Omar Cortes*, Byron David*, Chelsea Finn*, Keerthana Gopalakrishnan*, **Karol Hausman***, Alex Herzog*, Daniel Ho*, Jasmine Hsu*, Julian Ibarz*, Brian Ichter*, Alex Irpan*, Eric Jang*, Rosario Jauregui Ruano*, Kyle Jeffrey*, Sally Jesmonth*, Nikhil J Joshi*, Ryan Julian*, Dmitry Kalashnikov*, Yuheng Kuang*, Kuang-Huei Lee*, Sergey Levine*, Yao Lu*, Linda Luu*, Carolina Parada*, Peter Pastor*, Jornell Quiambao*, Kanishka Rao*, Jarek Rettinghouse*, Diego Reyes*, Pierre Sermanet*, Nicolas Sievers*, Clayton Tan*, Alexander Toshev*, Vincent Vanhoucke*, Fei Xia*, Ted Xiao*, Peng Xu*, Sichun Xu*, Mengyuan Yan*. **Do As I Can, Not As I Say: Grounding Language in Robotic Affordances**, *Conference on Robot Learning (CoRL)*, 2022.

C35. I. Uchendu, T. Xiao, Y. Lu, B. Zhu, M. Yan, J. Simon, M. Bennice, C. Fu, C. Ma, J. Jiao, S. Levine, **K. Hausman**. **Jump-Start Reinforcement Learning**, *under submission*, 2022.

C34. A. Gupta, C. Lynch, B. Kinman, G. Peake, S. Levine, **K. Hausman**. **Demonstration-Bootstrapped Autonomous Practicing via Multi-Task Reinforcement Learning**, *under submission*, 2022.

C33. T. Yu*, A. Kumar*, Y. Chebotar, **K. Hausman**, C. Finn, S. Levine. **How to Leverage Unlabeled Data in Offline Reinforcement Learning**, *International Conference on Machine Learning (ICML)*, 2022.

C32. A. Sharma*, K. Xu*, N. Sardana, A. Gupta, **K. Hausman**, S. Levine, C. Finn. **Autonomous Reinforcement Learning: Formalism and Benchmarking**, *International Conference on Learning Representations (ICLR)*, 2022.

C31. T. Yu*, A. Kumar*, Y. Chebotar, **K. Hausman**, S. Levine, C. Finn. **Conservative Data Sharing for Multi-Task Offline Reinforcement Learning**, *Neural Information Processing Systems (NeurIPS)*, 2021.

C30. A. Sharma, A. Gupta, S. Levine, **K. Hausman**, C. Finn. **Persistent Reinforcement Learning via Subgoal Curricula**, *Neural Information Processing Systems (NeurIPS)*, 2021.

C29. Yao Lu, **Karol Hausman**, Yevgen Chebotar, Mengyuan Yan, Eric Jang, Alexander Herzog, Ted Xiao, Alex Irpan, Mohi Khansari, Dmitry Kalashnikov, Sergey Levine. **AW-Opt: Learning Robotic Skills with Imitation and Reinforcement at Scale**, *Conference on Robot Learning (CoRL)*, 2021.

C28. D. Kalashnikov*, J. Varley*, Y. Chebotar, B. Swanson, R. Jonschkowski, C. Finn, S. Levine, **K. Hausman***. **MT-Opt: Continuous Multi-Task Robotic Reinforcement Learning at Scale**, *Conference on Robot Learning (CoRL)*, 2021.

C27. Y.Chebotar, **K. Hausman**, Y. Lu, T. Xiao, D. Kalashnikov, J. Varley, A. Irpan, B. Eysenbach, R. Julian, C. Finn, S. Levine. **Actionable Models: Unsupervised Offline Reinforcement Learning of Robotic Skills**, *International Conference on Machine Learning (ICML)*, 2021.

C26. C. Bodnar, **K. Hausman**, G. Dulac-Arnold, R. Jonschkowski. **A Geometric Perspective on Self-Supervised Policy Adaptation**, *International Conference on Robotics and Automation (ICRA)*, 2020.

C25. R. Julian, B. Swanson, G. Sukhatme, S. Levine, C. Finn, **K. Hausman**. **Never Stop Learning: The Effectiveness of Fine-Tuning in Robotic Reinforcement Learning**, *Conference on Robot Learning (CoRL)*, 2020.

C24. S. Pirk, **K. Hausman**, A. Toshev, M. Khansari. **Modeling Long-horizon Tasks as Sequential Interaction Landscapes**, *Conference on Robot Learning (CoRL)*, 2020.

C23. T. Yu, S. Kumar, A. Gupta, S. Levine, **K. Hausman**, C. Finn. **Gradient Surgery for Multi-Task Learning**, *Neural Information Processing Systems (NeurIPS)*, 2020.

C22. C. Bodnar, A. Li, **K. Hausman**, P. Pastor, M. Kalakrishnan. **Quantile QT-Opt for Risk-Aware Vision-Based Robotic Grasping**, *Best Systems Paper Finalist, Robotics: Science and Systems (RSS)*, 2020.

C21. A. Sharma, M. Ahn, S. Levine, V. Kumar, **K. Hausman***, S. Gu*. **Emergent Real-World Robotic Skills via Unsupervised Off-Policy Reinforcement Learning**, *Robotics: Science and Systems (RSS)*, 2020.

C20. T. Xiao, E. Jang, D. Kalashnikov, S. Levine, J. Ibarz, **K. Hausman***, A. Herzog*. **Thinking While Moving: Deep Reinforcement Learning with Concurrent Control**, *International Conference on Learning Representations (ICLR)*, 2020.

C19. A. Sharma, S. Gu, S. Levine, V. Kumar, **K. Hausman**. **Dynamics-Aware Unsupervised Discovery of Skills**, *oral presentation, International Conference on Learning Representations (ICLR)*, 2020.

C18. M. Woodward, C. Finn, **K. Hausman**. **Learning to Interactively Learn and Assist**, *oral presentation, AAAI*, 2020.

C17. A. Gupta, V. Kumar, C. Lynch, S. Levine, **K. Hausman**. **Relay Policy Learning: Solving Long-Horizon Tasks via Imitation and Reinforcement Learning**, *Conference on Robot Learning (CoRL)*, 2019.

C16. T. Yu*, D. Quillen*, Z. He*, R. Julian, **K. Hausman**, C. Finn, S. Levine. **Meta-World: A Benchmark and Evaluation for Multi-Task and Meta Reinforcement Learning** *Conference on Robot Learning (CoRL)*, 2019.

C15. R. Julian*, E. Heiden*, Z. He, H. Zhang, S. Schaal, J. Lim, G. Sukhatme, **K. Hausman**. **Scaling Simulation-to-real Transfer by Learning Composable Robot Skills**, *International Symposium on Experimental Robotics (ISER)*, 2018.

C14. **K. Hausman**, J.T. Springenberg, Z. Wang, N. Heess, M. Riedmiller. **Learning an Embedding Space for Transferable Robot Skills**, *International Conference on Learning Representations (ICLR)*, 2018.

C13. A. Agha-mohammadi, E. Heiden, **K. Hausman**, G. Sukhatme. **Confidence-rich Grid Mapping**, *In International Symposium on Robotics Research (ISRR)*, 2017.

C12. **K. Hausman***, Y.Chebotar*, S. Schaal, G. Sukhatme, J. Lim. **Multi-Modal Imitation Learning from Unstructured Demonstrations using Generative Adversarial Nets**, *In Neural Information Processing Systems (NIPS)*, 2017.

C11. E. Heiden, **K. Hausman**, G. Sukhatme, A. Agha-mohammadi. **Planning High-speed Safe Trajectories in Confidence-rich Maps**, *In IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2017.

C10. Y.Chebotar*, **K. Hausman***, M. Zhang*, G. Sukhatme, S. Schaal, S. Levine. **Combining Model-Based and Model-Free Updates for Trajectory-Centric Reinforcement Learning**, *In International Conference on Machine Learning (ICML)*, 2017.

C9. J. Preiss, **K. Hausman**, G. Sukhatme, S. Weiss. **Trajectory Optimization for Self-Calibration and Navigation**, *In Robotics: Science and Systems (RSS)*, 2017.

C8. **K. Hausman***, Y. Chebotar*, O. Kroemer, G. Sukhatme, S. Schaal. **Generalizing Regrasping with Supervised Policy Learning**, *In International Symposium on Experimental Robotics (ISER)*, 2016.

C7. **K. Hausman**, G. Kahn, S. Patil, J. Mueller, K. Goldberg, P. Abbeel, G. Sukhatme. **Occlusion-Aware Multi-Robot 3D Tracking**, *In IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2016.

C6. Y. Chebotar, **K. Hausman**, Z. Su, G. Sukhatme, S. Schaal. **Self-Supervised Regrasping using Spatio-Temporal Tactile Features and Reinforcement Learning**, *In IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2016.

C5. **K. Hausman**, S. Weiss, R. Brockers, L. Matthies, G. Sukhatme. **Self-Calibrating Multi-Sensor Fusion with Probabilistic Measurement Validation for Seamless Sensor Switching on a UAV**, *In IEEE International Conference on Robotics and Automation (ICRA)*, 2016.

C4. Z. Su, **K. Hausman**, Y. Chebotar, A. Molchanov, G. Loeb, G. Sukhatme, S. Schaal. **Force Estimation and Slip Detection for Grip Control using a Biomimetic Tactile Sensor**, *In Proceedings of the IEEE-RAS International Conference on Humanoid Robotics (Humanoids)*, 2015.

C3. **K. Hausman**, S. Niekum, S. Osentoski, G. Sukhatme. **Active Articulation Model Estimation through Interactive Perception**, *In IEEE International Conference on Robotics and Automation (ICRA)*, 2015.

C2. **K. Hausman**, J. Mueller, A. Hariharan, N. Ayanian, G. S. Sukhatme. **Cooperative Control for Target Tracking with Onboard Sensing**, *In Proceedings, International Symposium on Experimental Robotics (ISER)*, Jun 2014.

C1. **K. Hausman**, F. Balint-Benczedi, D. Pangercic, Z. Marton, R. Ueda, K. Okada, M. Beetz. **Tracking-based Interactive Segmentation of Textureless Objects**, *In IEEE International Conference on Robotics and Automation (ICRA)*, 2013.
Best Service Robotics Paper Finalist.

## REVIEWED WORKSHOP PAPERS AND ABSTRACTS

W18. **K.Hausman**, J. T. Springenberg, Z. Wang, N. Heess, and M. Riedmiller. **Learning Skill Embeddings for Transferable Robot Skills**, *NIPS Deep Reinforcement Learning Symposium*, 2017.

W17. **K.Hausman**, J. T. Springenberg, Z. Wang, N. Heess, and M. Riedmiller. **Learning Robot Skill Embeddings**, *NIPS Workshop on Acting and Interacting in the Real World: Challenges in Robot Learning*, 2017.

W16. A. Agha-mohammadi, E. Heiden, **K. Hausman** and G. Sukhatme. **Confidence-aware Occupancy Grids**, *IROS Workshop on Vision-based Agile Autonomous Navigation of UAVs*, 2017.

W15. E. Heiden, **K. Hausman**, G. Sukhatme and A. Agha-mohammadi. **High-speed Safe Trajectory Planning in Confidence-rich Maps**, *IROS Workshop on Vision-based Agile Autonomous Navigation of UAVs*, 2017.

W14. **K. Hausman**\*, Y.Chebotar\*, S. Schaal, G. Sukhatme, J. Lim. **IntentionGAN: Multi-Task Imitation Learning from Unstructured Demonstrations**, *Conference on Robot Learning (CoRL)*, 2017.

W13. **K. Hausman**\*, Y.Chebotar\*, S. Schaal, G. Sukhatme, J. Lim. **IntentionGAN: Multi-Modal Imitation Learning from Unstructured Demonstrations**, *RSS Workshop on Learning from Demonstration in High-Dimensional Feature Spaces*, 2017.

W12. Y.Chebotar\*, **K. Hausman**\*, M. Zhang\*, G. Sukhatme, S. Schaal, S. Levine. **Combining Model-Based and Model-Free Updates for Deep Reinforcement Learning**, *In RSS 2017 Workshop on New Frontiers for Deep Learning in Robotics*, 2017.
Best Paper Award

W11. Y. Chebotar\*, **K. Hausman**\*, O. Kroemer, G. Sukhatme, S. Schaal. **Regrasping using Tactile Perception and Supervised Policy Learning**, *In AAAI Symposium on Interactive Multi-Sensory Object Perception for Embodied Agents*, 2017.

W10. Y. Chebotar\*, **K. Hausman**\*, O. Kroemer, G. Sukhatme, S. Schaal. **Supervised Policy Fusion with Application to Regrasping**, *In IROS 2016 Workshop on Closed-loop Grasping and Manipulation: Challenges and Progress*, 2016.

W9. **K. Hausman**, James Preiss, G. Sukhatme, S. Weiss. **Observability-Aware Trajectory Optimization for Self-Calibration with Application to UAVs**, *In RSS 2016 Workshop on Robot-Environment Interaction for Perception and Manipulation*, 2016.

W8. Y. Chebotar, **K. Hausman**, Z. Su, A. Molchanov, O. Kroemer, G. Sukhatme, S. Schaal. **BiGS: BioTac Grasp Stability Dataset**, *In ICRA 2016 Workshop on Grasping and Manipulation Datasets*, 2016.

W7. Z. Su, **K. Hausman**, Y. Chebotar, A. Molchanov, G. Loeb, G. Sukhatme, S. Schaal. **Slip Classification Using Tangential and Torsional Skin Distortions on a Biomimetic Tactile Sensor**, *In BMVA Workshop on Visual, Tactile and Force Sensing for Robot Manipulation*, 2015.

W6. Z. Su, **K. Hausman**, Y. Chebotar, A. Molchanov, G. Loeb, G. Sukhatme, S. Schaal. **Slip Detection and Classification for Grip Control using Multiple Sensory Modalities on a Biomimetic Tactile Sensor**, *In IROS 2015 Workshop on Multimodal Sensor-Based Robot Control for HRI and Soft Manipulation*, 2015.

W5. **K. Hausman**, G. Kahn, S. Patil, J. Mueller, K. Goldberg, P. Abbeel, G. Sukhatme. **Optimization-based Cooperative Multi-Robot Target Tracking with Reasoning about Occlusions**, *In IROS 2015 Workshop on On-line Decision-Making in Multi-Robot Coordination*, 2015.

W4. **K. Hausman**, C. Corcos, J. Mueller, F. Sha, G. S. Sukhatme. **Towards Interactive Object Recognition**, *In IROS 2014 3rd Workshop on Robots in Clutter: Perception and Interaction in Clutter*, 2014.

W3. **K. Hausman**, J. Mueller, A. Hariharan, N. Ayanian, G. S. Sukhatme. **Cooperative Multi-Robot Control for Target Tracking with Efficient Switching of Onboard Sensing Topologies**, *In IROS 2014 Workshop on Taxonomies of Interconnected Systems: Topology in Distributed Robotics*, 2014.

W2. **K. Hausman**, Ch. Bersch, D. Pangercic, S. Osentoski, Z. Marton, M. Beetz. **Segmentation of Cluttered Scenes through Interactive Perception**, *In ICRA 2012 Workshop on Semantic Perception and Mapping for Knowledge-enabled Service Robotics*, 2012.

W1. Ch. Bersch, D. Pangercic, S. Osentoski, **K. Hausman**, Z. Marton, R. Ueda, K. Okada, M. Beetz. **Segmentation of Textured and Textureless Objects through Interactive Perception**, *In RSS Workshop on Robots in Clutter: Manipulation, Perception and Navigation in Human Environments*, 2012.

## Scholarships and Awards

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| 2022 | Excellence in Leadership in Google Brain award |
| 2020 | Best Systems Paper Finalist at RSS 2020 |
| 2018 | Best Poster Award at USC Computer Science Annual Research Day |
| 2017 | Best Paper Award at RSS 2017 New Frontiers for Deep Learning in Robotics Workshop |
| 2013 - 2014 | USC Viterbi School of Engineering PhD Fellowship |
| 2011 - 2013 | DAAD (German Academic Exchange Service) scholarship for students with outstanding curriculum |
| 2008 - 2011 | Warsaw University of Technology annual scholarship for outstanding academic achievements |
| 2013 | Best Service Robotics Paper Finalist at ICRA 2013 |
| 2010 | BEC Best Engineering Competition - 6th place in Poland |
| 2004, 2005 | International Championships in Mathematical and Logical Games, finalist x2 |

## Advising:

- Kaylee Burns - PhD student at Stanford

- Sumedh Sontakke - PhD student at USC and student researcher at Google Brain

- Karl Pertsch - PhD student at USC and student researcher at Google Brain

- Wenlong Huang - PhD student at Stanford and student researcher at Google Brain

- Oleh Rybkin - intern at Google Brain, currently PhD student at UPenn

- Tianhe (Kevin) Yu - PhD student at Stanford and student researcher at Google Brain *currently a research scientist at Google Brain*

- Ike Uchendu - Google AI Resident *currently PhD student at Harvard*

- Ryan Julian - PhD student at USC and student researcher at Google Brain, *currently Researcher at Google Brain*
- Abhishek Gupta - PhD student at UC Berkeley and student researcher at Google Brain, *currently Assistant Professor at University of Washington*
- Cristian Bodnar - intern at Google Brain, *currently PhD student at Cambridge,*
- Mark Woodward - Google AI Resident, *currently CTO at a startup*
- Archit Sharma - Google AI Resident, *currently PhD Student at Stanford*
- Evan Liu - Google AI Resident, *currently PhD Student at Stanford*
- Hugo Ponte - Google AI Resident, *currently start-up founder*
- Christoph Kohstall - Google AI Resident, *currently start-up founder*
- Eric Heiden - Simultaneous Mapping and Planning, *currently Research Scientist at Nvidia*

## PROFESSIONAL ACTIVITIES

**Associate Editor/Area Chair:**

International Conference on Learning Representations (ICLR) 2022,
Conference on Robot Learning (CoRL) 2019-2021,
Neural Information Processing Systems (NeurIPS) 2021, 2022
International Conference on Machine Learning (ICML) 2021,
International Conference on Robotics and Automation (ICRA) 2021,
International Conference on Intelligent Robots and Systems (IROS) 2021

**Reviewer:**

ICML 2019-20, NeurIPS 2018-20, ICRA 2013-2018, IROS 2014-2017, RSS 2017-2020, CoRL 2017-2018, IJCAI 2016, SIMPAR 2016, IEEE Transactions on Robotics, International Journal of Robotics Research, IEEE Robotics and Automation Letters, Autonomous Robots

**Organizer:**

NeurIPS 2022 Deep Reinforcement Learning Workshop
RSS 2016 Workshop on Robot-Environment Interaction for Perception and Manipulation

**Program Committee Member:**

NeurIPS 2018-2020 Deep RL Workshop, NeurIPS 2019 Workshop on Meta-Learning, Neurips 2019-2020 Workshop on Robot Learning, NeurIPS 2019 Workshop on Learning with Rich Experience, ICLR 2021 Workshop on a Roadmap to Never-Ending RL, ICLR 2020 Workshop on Unsupervised RL, RSS 2017 Revisiting Contact Workshop, IJCAI 2016, SIMPAR 2016, ICRA 2013 Robots in Clutter Workshop

## ENTREPRENEURIAL ACTIVITIES

- 2021: Advisory board member for a California-based start-up.
- 2015-2016: Robotics Consultant for two California-based start-ups.
- 2012-2014: Zeebraamusic, Chief Operating Officer
  Responsible for technology strategy, team building, product development.