Suraj Nair

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EDUCATION	**Stanford University**, Stanford, CA	2018-Present
	Ph.D. in Computer Science	
	Advisors: Chelsea Finn, Silvio Savarese	
	California Institute of Technology, Pasadena, CA	2014-2018
	Bachelor of Science in Computer Science	GPA: 3.9/4.0
	Advisor: Yisong Yue	

EXPERIENCE	**Google Brain**, Research Intern/Visiting Researcher	2018-2019
	Stanford Vision and Learning Lab, Visiting Researcher	2017
	Vizzario, Inc., Machine Learning Consultant	2017
	Caltech DOLCIT, Student Researcher	2016-2018
	OpenFog Consortium, Caltech Representative	2016-2018
	General Electric, Current, Software Development Intern	2016
	KloudData, Inc., Software Engineering Intern	2015

PUBLICATIONS & PREPRINTS

[13] Stephen Tian, **Suraj Nair**, Frederik Ebert, Sudeep Dasari, Benjamin Eysenbach, Chelsea Finn, and Sergey Levine, Model-Based Visual Planning with Self-Supervised Functional Distances, *International Conference on Learning Representations (ICLR)*. 2021.

[12] Annie Chen*, HyunJi Nam*, **Suraj Nair***, Chelsea Finn. Batch Exploration with Examples for Scalable Robotic Reinforcement Learning. *Under review by IEEE International Conference on Robotics and Automation (ICRA)*. 2021

[11] Brijen Thananjeyan*, Ashwin Balakrishna*, **Suraj Nair**, Michael Luo, Krishnan Srinivasan, Minho Hwang, Joey E. Gonzalez, Chelsea Finn, Ken Goldberg. Recovery Rl: Safe Reinforcement Learning with Learned Recovery Zones. *Under review by IEEE International Conference on Robotics and Automation (ICRA)*. 2021

[10] **Suraj Nair**, Silvio Savarese, Chelsea Finn. Goal-Aware Prediction: Learning to Model What Matters. *International Conference on Machine Learning (ICML)*. 2020.

[9] Henrik Marklund*, **Suraj Nair***, Chelsea Finn. Exact (Then Approximate) Dynamics Programming for Deep Reinforcement Learning *Workshop on Biases, Invariances, and Generalization in RL, International Conference on Machine Learning (ICML)*. 2020.

[8] **Suraj Nair**, Chelsea Finn. Hierarchical Foresight: Self-Supervised Learning of Long-Horizon Tasks via Visual Subgoal Generation. *International Conference on Learning Representations (ICLR)*. 2020.

[7] **Suraj Nair**, Mohammad Babaeizadeh, Chelsea Finn, Sergey Levine, Vikash Kumar. Time Reversal As Self-Supervision. *IEEE International Conference on Robotics and Automation (ICRA)*. 2020.

[6] **Suraj Nair**, Yuke Zhu, Silvio Savarese, Li Fei-Fei. Causal Induction from Visual Observations for Goal Directed Tasks, *Workshop on Causal Machine Learning, Neural Information Processing Systems (NeurIPS)*. 2019.

[5] Sudeep Dasari, Frederik Ebert, Stephen Tian, **Suraj Nair**, Bernadette Bucher, Karl

Schmeckpeper, Siddharth Singh, Sergey Levine, Chelsea Finn. RoboNet: Large-Scale Multi-Robot Learning, *Conference on Robot Learning (CoRL)*. 2019.

[4] De-An Huang*, **Suraj Nair***, Danfei Xu*, Yuke Zhu, Animesh Garg, Li Fei-Fei, Silvio Savarese, Juan Carlos Niebles. Neural Task Graphs: Generalizing to Unseen Tasks from a Single Video Demonstrations, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2019.

[3] Danfei Xu*, **Suraj Nair***, Yuke Zhu, Julian Gao, Animesh Garg, Li Fei-Fei, Silvio Savarese. Neural Task Programming: Learning to Generalize Across Hierarchical Tasks. *IEEE International Conference on Robotics and Automation (ICRA)*. 2018.

[2] Men-Andrin Meier, Zachary E Ross, Anshul Ramachandran, Ashwin Balakrishna, **Suraj Nair**, Peter Kundzicz, Zefeng Li, Jennifer Andrews, Egill Hauksson, Yisong Yue. Reliable RealTime Seismic Signal/Noise Discrimination With Machine Learning. *Journal of Geophysical Research: Solid Earth*. 2019.

[1] **Suraj Nair**, Anshul Ramachandran, Peter Kundzicz. Annotated Reconstruction of 3D Spaces Using Drones. *IEEE MIT URTC*. 2017. **Best Paper Presentation.**

TALKS	**Time Reversal as Self-Supervision**	2018
	Berkeley Robotic Artificial Intelligence and Learning Lab.	
	Applying Neural Networks in IoT Use Cases	2017
	Internet of Things World Congress 2017	

TEACHING	*Teaching Assistant*, Stanford University	2019, 2020
	CS 330: Deep Multi-Task and Meta Learning	
	Teaching Assistant, California Institute of Technology	2017
	CS/EE 155: Machine Learning/Data Mining	
	Teaching Assistant, California Institute of Technology	2016
	CS 121: Introduction to Relational Databases	

AWARDS & HONORS	National Science Foundation Graduate Research Fellowship	2018-2021
	Best Paper Presentation - IEEE MIT URTC	2017
	Caltech Summer Undergraduate Research Fellowship Recipient	2017
	1st Place GE Digital Intern Hackathon	2016

PROFESSIONAL ACTIVITIES
Paper Reviewing:
Neural Information Processing Systems (NeurIPS) 2020
International Conference on Machine Learning (ICML) 2020
International Conference on Learning Representations (ICLR) 2019
IEEE International Conference on Robotics and Automation (ICRA) 2019
IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019