

Deepak Pathak

CONTACT INFORMATION	Carnegie Mellon University Robotics Institute Pittsburgh, PA	E-mail: dpathak@cs.cmu.edu Website: https://www.cs.cmu.edu/~dpathak/ Google Scholar
EDUCATION	University of California, Berkeley <i>PhD Candidate in Computer Science</i> Advised by Prof. Alexei A. Efros and Prof. Trevor Darrell CGPA : 4.0/4.0	Aug 2014 – Aug 2019
	Indian Institute of Technology, Kanpur <i>BTech. in Computer Science and Engineering</i> Gold Medal in Computer Science CGPA : 9.9/10	Aug 2010 – June 2014
APPOINTMENTS	Carnegie Mellon University Pittsburgh, PA <i>Assistant Professor</i>	Sept 2020 – Present
	Facebook AI Research Menlo Park, CA <i>Researcher</i>	Sept 2019 – Aug 2020
	University of California, Berkeley Berkeley, CA <i>Visiting Researcher with Prof. Pieter Abbeel</i>	Sept 2019 – Aug 2020
	Facebook AI Research Pittsburgh, PA <i>Research Intern</i>	May 2018 – Jan 2019
	Facebook AI Research Seattle, WA <i>Research Intern</i>	May 2016 – Nov 2016
	Microsoft Research New York City, NY <i>Research Intern</i>	May 2013 – Aug 2013
	Indian Institute of Technology, Kanpur Kanpur, India <i>Undergraduate Researcher</i>	Aug 2013 – May 2014
INDUSTRY EXPERIENCE	Co-Founder of VisageMap Inc. <i>Later acquired by FaceFirst Inc., Los Angeles, CA</i> VisageMap (now, FaceFirst) offers person identification solution that outperform alternative identification methods, including fingerprints, iris scans, and other biometric recognition systems.	Founded 2014
HONORS AND AWARDS	Okawa Research Award	2022
	Young Alumnus Award from IIT Kanpur	2022
	Best Paper Award at CVPR'22 Multimodal Learning Workshop	2022
	Best Paper Award Finalist at RSS'22 Scaling Robot Learning Workshop	2022
	Selected as DARPA Riser	2022
	Samsung GRO Award	2021-22
	Best Paper Award Finalist in Cognitive Robotics at ICRA'21	2021
	Sony Research Award	2020-21
	GoodAI Research Award	2020-21
	Google Faculty Research Award	2019-20
	Winner of Virtual Creatures Competition at GECCO'19	2019

Facebook Graduate Fellowship	2018-20
Snapchat Research Fellowship	2018
Nvidia Graduate Fellowship	2017-18
ICCV Outstanding Reviewer Award	2017
Gold Medal for the highest academic performance in the department.	2014
Best Undergraduate Thesis Award , IIT Kanpur.	2014
TCS Best Software Award in the graduating year.	2014
Binay Kumar Sinha Award for best industrially applicable thesis in the graduating year.	2014
Academic Excellence Award , IIT Kanpur.	2011-14
CBSE Merit Scholarship for undergraduate studies.	2010-14

SERVICE AND
LEADERSHIP

Area Chair <i>ECCV 2022, NeurIPS 2022/2021/2020, ICLR 2022/2021, CVPR 2021, ICML 2021, ICCV 2021</i>	2020 - Present
Session Chair <i>NeurIPS 2020/2021, ICRA 2021, ICML 2021</i>	2020 - Present
CoRL Workshop Co-organizer <i>Sim-to-Real Robot Learning: Locomotion and Beyond</i>	Dec 2022
CogSci Workshop Co-organizer <i>The Origins of Commonsense in Humans and Machines</i>	July 2020
CVPR Workshop Co-organizer <i>Computer Vision After 5 Years</i>	June 2019
ICLR Workshop Co-organizer <i>Task Agnostic Reinforcement Learning</i>	May 2019
ECCV Workshop Co-organizer <i>11th POCV Workshop: Action, Perception and Organization</i>	Sept 2018
Reviewer <i>CVPR, NeurIPS, ICML, ICLR, CoRL, ECCV, ICCV, AAAI, IJCV, TPAMI, JMLR, RA-L/IROS</i>	2015-19
Member: CMU RI M.S. Admission Committee	2022
Guest Lecture: 6th Summer School on Artificial Intelligence, IIIT Hyderabad	2022
Guest Lecture: CMU AI4ALL Program	2021
Guest Lecture: AI for Social Good Symposium, Amrita University	2021
Guest Lecture: Faculty Development Program, Amity University	2021
Member: UC Berkeley Ph.D. Admission Committee	2015, 2018
BAIR Undergraduate Mentor	2018

MEDIA
COVERAGE

Legged Locomotion in Challenging Terrains using Egocentric Vision <i>MIT Tech Review, TechCrunch, IEEE Spectrum, Cosmos, Technology, Popular Science</i>	Fall 2022
Deep Whole-Body Control: Unified Policy for Manipulation & Locomotion <i>New Scientist, Popular Science</i>	Fall 2022
Human-to-Robot Imitation in the Wild <i>Vox, TechCrunch, Voice of America, ASME, TechXplore, La Presse, 01Net French</i>	Summer 2022
Robotic Telekinesis: Learning by Watching Humans on Youtube <i>TechXplore, The Voice of America, Weights & Biases, Two Minute Papers</i>	Spring 2022

RMA: Rapid Motor Adaptation for Legged Robots <i>Washington Post, CBS TV, The Wall Street Journal, TechCrunch, Forbes, CNET, TechXplore, L'ADN (France), Digitech News (Italy), CNBeta (China), Observador (Portugal), Beratakini (Malaysia), 3DNews (Russia), 15Min (Lithuania), GeekTime (Israel)</i>	Summer 2021
Auto-Tuned Sim-to-Real Transfer <i>Synced Review</i>	Spring 2021
Planning to Explore via Self-Supervised World Models <i>VentureBeat, Synced Review</i>	Fall 2020
Large-Scale Curiosity-driven Learning <i>The Economist, The Verge, Quartz, Two Minute Papers</i>	Fall 2018
Investigating Human Priors for Playing Video Games <i>MIT Tech Review, Hitech News Daily, Two Minute Papers</i>	Spring 2018
Curiosity-driven Exploration using Self-Supervised Prediction <i>The Wall Street Journal, MIT Tech Review, New Scientist, Quanta Magazine, Wired, Engadget, NYPost, California Magazine, Digital Trends, Caixin, Publico, India Times, Two Minute Papers</i>	Summer 2017
A Comparison of Forecasting Methods: Predicting Oscar Awards <i>Daily Mail, Business Insider, Engadget, Huffington Post</i>	Spring 2015

INVITED TALKS

“A Bottom Up Approach to Robot Learning” NeurIPS 2022: Workshop on Foundation Models in Decision Making,	Dec 2022
“Keynote Talk and Fireside Chat” Conference on Cognitive Computational Neuroscience (CCN),	Aug 2022
“Robotic Generalization In The Wild Through Vision” Google Brain Vision Reading Group	July 2022
“Open-World Vision for Robot Learning in the Wild” CVPR 2022: Invited talk at Open World Vision Workshop	June 2022
“Generalizable Policy Learning in the Physical World” ICLR 2022: Panel Discussion at Workshop	April 2022
“Generalization for Robot Learning In The Wild” Covariant AI Toyota Research Institute Allen Institute for AI (AI2)	May 2022 April 2022 April 2022
“Planning to Explore via World Models” Dagstuhl Seminar on Recent Advancements in Tractable Probabilistic Inference	April 2022
“Continually Improving Robots: Unsupervised Exploration and Rapid Adaptation” Speaker, Intrinsically Motivated Open-ended Learning (IMOL)	April 2022
“Generalization for Robot Learning In The Wild” UC Berkeley	Feb 2022
“Learning to Walk via Rapid Motor Adaptation” Re-Work Deep Learning Summit, San Francisco	Feb 2022
“Robots that Learn to Generalize via Rapid and Continual Adaptation” Distinguished Talk Series, South Korea	Dec 2021
“Robots that Rapidly Adapt to Diverse Tasks and Environments” NAVER Labs Seminar Series UCL: Centre for Artificial Intelligence	Sept 2021 Aug 2021

UBC: CAIDA Seminar Series	July 2021
“Rapid Adaptation in Robot Learning”	
CMU: VASC Seminar	Sept 2021
MIT CSAIL: Embodied Intelligence Seminar	July 2021
“Unifying Perception and Control through Video”	
CVPR 2021: Invited talk at Unlabeled Video Workshop	June 2021
“Learning to Generalize beyond Training”	
Microsoft Research, New York City	Apr 2021
“Robots that Learn to Generalize Beyond Training”	
MonREAL/MILA Robot Learning Seminar	Mar 2021
“Ontogeny and Phylogeny of Embodied Robots”	
EPFL Neuro Symp: Surprise, Curiosity, Reward	Feb 2021
RTG Computational Cognition: DeepRL Workshop	Jan 2021
“Learning to Generalize beyond Training”	
CMU Robotics Institute Seminar	Nov 2020
“Compositional Control: Intelligence without a brain”	
GoodAI Workshop on Meta-Learning & Multi-Agent Learning	Aug 2020
“Self-Supervision & Modularity: Cornerstones for Generalization in Embodied Agents”	
ECCV 2020: Invited talk at Workshop on Self-Supervised Learning	Aug 2020
“Intelligence without a brain”	
CogSci 2020: Invited talk at Workshop on the Origins of Commonsense	July 2020
“Curious and Compositional Robots”	
Invited talk at Stanford	July 2020
“What does pretraining mean for robots?”	
CVPR 2020: Invited talk at Embodied-AI Workshop	June 2020
“Generalization via Self-Directed Learning”	
CMU	Mar 2019
MIT EECS	Mar 2019
MIT BCS	Mar 2019
USC	Feb 2019
UC Berkeley AI Seminar	Feb 2019
Google Brain	May 2019
Facebook AI Research	June 2019
Nvidia Research	July 2019
Meetup on State of AI and ML by ValleyML.ai	Aug 2019
“Curiosity-driven Exploration in Artificial Agents and Robots”	
Workshop on Curiosity, Explanation, & Exploration at Princeton University	June 2019
“Self-Supervised Exploration via Disagreement”	
International Conference on Machine Learning (ICML)	June 2019
“Large Scale Study of Curiosity-Driven Learning”	
NeurIPS 2018: Deep Reinforcement Learning Workshop	Dec 2018
“Building Generalizable Agents via Curiosity and Self-supervision”	
GRASP Seminar: University of Pennsylvania	Sept 2018
Microsoft Research, NYC	Sept 2018
VASC Seminar: Robotics Institute, CMU	May 2018
“Learning Instance Segmentation by Interaction”	

Deep Robotics Vision Workshop (CVPR)	June 2018
“Zero-Shot Visual Imitation”	
International Conference on Representation Learning (ICLR)	Apr 2018
“Lifelong Learning via Curiosity and Self-supervision”	
Vision Seminar: CSAIL, MIT	Mar 2018
Research Meeting: Google Brain	Mar 2018
Invited Talk: Redwood Center for Theoretical Neuroscience, Berkeley	Sept 2017
Invited Seminar Talk: IIT Kanpur	Jan 2018
Invited talk: Uber AI Labs	Sept 2017
“Learning to Perceive and Act via Self-supervision”	
Invited talk: Frontiers of Video Technology Workshop, Adobe	July 2017
“Learning Features by Watching Objects Move”	
CVPR 2017: Large-Scale Video Understanding Workshop	June 2017
“Curiosity-driven Exploration using Self-Supervised Prediction”	
International Conference on Machine Learning (ICML)	May 2017
Invited talk: OpenAI, San Francisco	June 2017
“Exploring Four Axes of Self-Supervision”	
Talk at Berkeley AI Research Seminar	Apr 2017
“Unsupervised Learning of Visual Representations”	
Mysore Park Workshop on Vision, Language and AI	Dec 2016

PEER REVIEWED
PUBLICATIONS

- [1] **Legged Locomotion in Challenging Terrains using Egocentric Vision**
Conference on Robot Learning (CoRL) 2022 (Oral)
Ananye Agarwal*, Ashish Kumar*, Jitendra Malik, **Deepak Pathak**
- [2] **Deep Whole-Body Control: Learning a Unified Policy for Manipulation and Locomotion**
Conference on Robot Learning (CoRL) 2022 (Oral)
Zipeng Fu*, Xuxin Cheng*, **Deepak Pathak**
- [3] **VideoDex: Learning Dexterity from Internet Videos**
Conference on Robot Learning (CoRL) 2022
Kenneth Shaw*, Shikhar Bahl*, **Deepak Pathak**
- [4] **HERD: Continuous Human-to-Robot Evolution for Learning from Human Demonstration**
Conference on Robot Learning (CoRL) 2022
Xingyu Liu, **Deepak Pathak**, Kris M. Kitani
- [5] **Understanding Collapse in Non-Contrastive Siamese Representation Learning**
European Conference on Computer Vision (ECCV) 2022
Alexander Cong Li, Alexei A. Efros, **Deepak Pathak**
- [6] **Adapting Rapid Motor Adaptation for Bipedal Robots**
International Conference on Intelligent Robots and Systems (IROS) 2022
Ashish Kumar, Zhongyu Li, Jun Zeng, **Deepak Pathak**, Koushil Sreenath, Jitendra Malik
- [7] **Human-to-Robot Imitation in the Wild**
Robotics: Science and Systems (RSS) 2022
Shikhar Bahl, Abhinav Gupta, **Deepak Pathak**
- [8] **Robotic Telekinesis: Learning a Robotic Hand Imitator by Watching Humans on Youtube**
Robotics: Science and Systems (RSS) 2022
Best Paper Award Finalist in Scaling Robot Learning Workshop
Aravind Sivakumar, Kenneth Shaw, **Deepak Pathak**

- [9] **Topologically-Aware Deformation Fields for Single-View 3D Reconstruction**
Computer Vision and Pattern Recognition (CVPR) 2022
Shivam Duggal, **Deepak Pathak**
- [10] **Coupling Vision and Proprioception for Navigation of Legged Robots**
Computer Vision and Pattern Recognition (CVPR) 2022
Best Paper Award in Multimodal Learning Workshop
Zipeng Fu*, Ashish Kumar*, Ananye Agarwal, Haozhi Qi, Jitendra Malik, **Deepak Pathak**
- [11] **Language Models as Zero-Shot Planners: Extracting Actionable Knowledge for Embodied Agents**
International Conference on Machine Learning (ICML) 2022
Wenlong Huang, Pieter Abbeel, **Deepak Pathak***, Igor Mordatch*
- [12] **REvolveR: Continuous Evolutionary Models for Robot-to-Robot Policy Transfer**
International Conference on Machine Learning (ICML) 2022 (Long Oral)
Xingyu Liu, **Deepak Pathak**, Kris M. Kitani
- [13] **Zero-Shot Reward Specification via Grounded Natural Language**
International Conference on Machine Learning (ICML) 2022
Parsa Mahmoudieh, **Deepak Pathak**, Trevor Darrell
- [14] **Discovering and Achieving Goals via World Models**
Neural Information Processing Systems (NeurIPS) 2021
Russell Mendonca*, Oleh Rybkin*, Kostas Daniilidis, Danijar Hafner, **Deepak Pathak**
- [15] **Functional Regularization for Reinforcement Learning via Learned Fourier Features**
Neural Information Processing Systems (NeurIPS) 2021
Alexander C. Li, **Deepak Pathak**
- [16] **Interesting Object, Curious Agent: Learning Task-Agnostic Exploration**
Neural Information Processing Systems (NeurIPS) 2021 (Oral)
Simone Parisi, Victoria Dean, **Deepak Pathak**, Abhinav Gupta
- [17] **Accelerating Robotic Reinforcement Learning via Parameterized Action Primitives**
Neural Information Processing Systems (NeurIPS) 2021
Murtaza Dalal, **Deepak Pathak***, Ruslan Salakhutdinov*
- [18] **The CLEAR Benchmark: Continual LEARNING on Real-World Imagery**
Neural Information Processing Systems Datasets and Benchmark Track (NeurIPS) 2021
Zhiqiu Lin, Jia Shi, **Deepak Pathak**, Deva Ramanan
- [19] **RB2: Robotic Manipulation Benchmarking with a Twist**
Neural Information Processing Systems Datasets and Benchmark Track (NeurIPS) 2021
Sudeep Dasari, et.al.
- [20] **Minimizing Energy Consumption Leads to the Emergence of Gaits in Legged Robots**
Conference on Robot Learning (CoRL) 2021
Zipeng Fu, Ashish Kumar, Jitendra Malik, **Deepak Pathak**
- [21] **Worldsheet: Wrapping the World in a 3D Sheet for View Synthesis from a Single Image**
International Conference on Computer Vision (ICCV) 2021 (Oral)
Ronghang Hu, Nikhila Ravi, Alex Berg, **Deepak Pathak**
- [22] **Hierarchical Neural Dynamic Policies**
Robotics: Science and Systems (RSS) 2021
Shikhar Bahl, Abhinav Gupta, **Deepak Pathak**
- [23] **RMA: Rapid Motor Adaptation for Legged Robots**
Robotics: Science and Systems (RSS) 2021
Ashish Kumar, Zipeng Fu, **Deepak Pathak**, Jitendra Malik

- [24] **Unsupervised Learning of Visual 3D Keypoints for Control**
International Conference on Machine Learning (ICML) 2021
Boyuan Chen, Pieter Abbeel, **Deepak Pathak**
- [25] **Differentiable Spatial Planning using Transformers**
International Conference on Machine Learning (ICML) 2021
Devendra Chaplot, **Deepak Pathak**, Jitendra Malik
- [26] **FLAVR: Flow-Agnostic Video Representations for Fast Frame Interpolation**
Winter Conference on Applications of Computer Vision (WACV) 2023 (arXiv 2021)
Tarun Kalluri, **Deepak Pathak**, Manmohan Chandraker, Du Tran
- [27] **Auto-Tuned Sim-to-Real Transfer**
International Conference on Robotics and Automation (ICRA) 2021
(Best Cognitive Robotics Paper Award Finalist)
Yuqing Du, Olivia Watkins, Trevor Darrell, Pieter Abbeel, **Deepak Pathak**
- [28] **Planning in Learned Latent Action Spaces for Generalizable Legged Locomotion**
IEEE Robotics and Automation Letters (RA-L) 2021
Tianyu Li, Roberto Calandra, **Deepak Pathak**, Yuandong Tian, Franziska Meier, Akshara Rai
- [29] **Learning Long-term Visual Dynamics with Region Proposal Interaction Networks**
International Conference on Representation Learning (ICLR) 2021
Haozhi Qi, Xiaolong Wang, **Deepak Pathak**, Yi Ma, Jitendra Malik
- [30] **Neural Dynamic Policies for End-to-End Sensorimotor Learning**
Neural Information Processing Systems (NeurIPS) 2020 (Spotlight)
Shikhar Bahl, Mustafa Mukadam, Abhinav Gupta, **Deepak Pathak**
- [31] **Sparse Graphical Memory for Robust Planning**
Neural Information Processing Systems (NeurIPS) 2020
Michael Laskin, Scott Emmons, Ajay Jain, Thanard Kurutach, Pieter Abbeel, **Deepak Pathak**
- [32] **One Policy to Control Them All:
Shared Modular Policies for Agent-Agnostic Control**
International Conference on Machine Learning (ICML) 2020
Wenlong Huang, Igor Mordatch, **Deepak Pathak**
- [33] **Planning to Explore via Self-Supervised World Models**
International Conference on Machine Learning (ICML) 2020
Ramanan Sekar, Oleh Rybkin, Kostas Daniilidis, Pieter Abbeel, Danijar Hafner, **Deepak Pathak**
- [34] **Locally Masked Convolution for Autoregressive Models**
Uncertainty in Artificial Intelligence (UAI) 2020
Ajay Jain, Pieter Abbeel, **Deepak Pathak**
- [35] **Compositional GAN: Learning Conditional Image Composition**
International Journal of Computer Vision (IJCV) 2020
Samaneh Azadi, **Deepak Pathak**, Sayna Ebrahimi, Trevor Darrell
- [36] **Learning to Control Self-assembling Morphologies: A Study of
Generalization via Modularity**
Neural Information Processing Systems (NeurIPS) 2019 (Spotlight)
Deepak Pathak*, Chris Lu*, Trevor Darrell, Phillip Isola, Alexei A. Efros
Also, The winner of Virtual Creatures Competition at GECCO 2019
- [37] **Third-Person Visual Imitation Learning via Decoupled Hierarchical Control**
Neural Information Processing Systems (NeurIPS) 2019
Pratyusha Sharma, **Deepak Pathak**, Abhinav Gupta
- [38] **Self-Supervised Exploration via Disagreement**
International Conference on Machine Learning (ICML) 2019
Deepak Pathak*, Dhiraj Gandhi*, Abhinav Gupta

- [39] **Large-Scale Study of Curiosity-Driven Learning**
International Conference on Representation Learning (ICLR) 2019
 Yuri Burda*, Harri Edwards*, **Deepak Pathak***, Amos Storkey, Trevor Darrell, Alexei A. Efros
 Also at *Deep RL Workshop, NeurIPS 2018 (Oral)*
- [40] **Zero-Shot Visual Imitation**
International Conference on Representation Learning (ICLR) 2018 (Oral)
Deepak Pathak*, Parsa Mahmoudieh*, Guanghao Luo*, Pulkit Agrawal*, Dian Chen, Fred Shentu, Evan Shelhamer, Jitendra Malik, Alexei A. Efros, Trevor Darrell
- [41] **Investigating Human Priors for Playing Video Games**
International Conference on Machine Learning (ICML) 2018 (Long Oral)
 Rachit Dubey, Pulkit Agarwal, **Deepak Pathak**, Thomas L. Griffiths, Alexei A. Efros
- [42] **Learning Instance Segmentation by Interaction**
Deep Learning in Robotics Vision Workshop (CVPR) 2018 (Oral)
Deepak Pathak*, Yide Shentu*, Dian Chen*, Pulkit Agrawal*, Trevor Darrell, Sergey Levine, Jitendra Malik
- [43] **Curiosity-driven Exploration using Self-Supervised Prediction**
International Conference on Machine Learning (ICML) 2017
Deepak Pathak, Pulkit Agrawal, Alexei A. Efros, Trevor Darrell
- [44] **Learning Features by Watching Objects Move**
Computer Vision and Pattern Recognition (CVPR) 2017
Deepak Pathak, Ross Girshick, Piotr Dollár, Trevor Darrell, Bharath Hariharan
 Also at *Large-Scale Video Understanding Workshop (CVPR) 2017 (Oral)*
- [45] **Toward Multimodal Image-to-Image Translation**
Neural Information Processing Systems (NIPS) 2017
 Jun-Yan Zhu, Richard Zhang, **Deepak Pathak**, T. Darrell, A. A. Efros, O. Wang, Eli Shechtman
- [46] **Context Encoders: Feature Learning by Inpainting**
Computer Vision and Pattern Recognition (CVPR) 2016
Deepak Pathak, Philipp Krähenbühl, Jeff Donahue, Trevor Darrell, Alexei A. Efros
- [47] **Large Scale Visual Recognition through Adaptation using Joint Representation and Multiple Instance Learning**
Journal of Machine Learning Research (JMLR) 2016
 Judy Hoffman, **Deepak Pathak**, Eric Tzeng, J. Long, S. Guadarrama, T. Darrell, Kate Saenko
- [48] **Constrained Convolutional Neural Networks for Weakly Supervised Segmentation**
International Conference on Computer Vision (ICCV) 2015
Deepak Pathak, Philipp Krähenbühl, Trevor Darrell
- [49] **Fully Convolutional Multi-Class Multiple Instance Learning**
Workshop Track in International Conference on Representation Learning (ICLR) 2015
Deepak Pathak, Evan Shelhamer, Jonathon Long, Trevor Darrell
- [50] **Detector Discovery in the Wild: Joint Multiple Instance and Representation Learning**
Computer Vision and Pattern Recognition (CVPR) 2015
 Judy Hoffman, **Deepak Pathak**, Trevor Darrell, Kate Saenko
- [51] **A Comparison of Forecasting Methods: fundamentals, polling, prediction markets, and experts**
Journal of Prediction Markets (JPM) 2015
Deepak Pathak, David Rothschild, Miro Dudík
- [52] **Anomaly Localization in Topic-based Analysis of Surveillance Videos**
Winter Conference on Applications of Computer Vision (WACV) 2015
Deepak Pathak, Abhijit Sharang, Amitabha Mukerjee

- [53] **Where is my Friend? - Person identification in Social Networks**
Automatic Face and Gesture Recognition (FG) 2015
Deepak Pathak, Sai Nitish Satyavolu, Vinay P. Namboodiri

OTHER
PUBLICATIONS

- [54] **Generalization in Dexterous Manipulation via Geometry-Aware Multi-Task Learning**
arXiv 2021
Wenlong Huang, Igor Mordatch, Pieter Abbeel, **Deepak Pathak**
- [55] **Constrained Structured Regression with Convolutional Neural Networks**
arXiv 2015
Deepak Pathak, Philipp Krähenbühl, Stella X. Yu, Trevor Darrell

TEACHING
EXPERIENCE

- Instructor, 16-824: Visual Learning and Recognition** Spring 2022
Carnegie Mellon University
- Instructor, 16-884: Learning for Embodied Action and Perception** Fall 2021
Carnegie Mellon University
- Instructor, 16-824: Visual Learning and Recognition** Spring 2021
Carnegie Mellon University
- CS 280: Computer Vision** Spring 2016
University of California, Berkeley
Graduate Student Instructor with Prof. Alexei A. Efros and Prof. Trevor Darrell
- CS 189/289: Introduction to Machine Learning** Fall 2015
University of California, Berkeley
Graduate Student Instructor with Prof. Alexei A. Efros and Dr. Isabelle Guyon
- Guest Lectures:** Berkeley Learn2Launch Series at UC Berkeley Spring 2019
- Guest Lecture:** Visual Recognition Class at IIT Kanpur Spring 2019
- Guest Lecture:** Computer Vision Class at IIT Kanpur Spring 2017
- Guest Lecture:** Computational & Theoretical Neuroscience Journal Club, UCL Spring 2017