Jia Deng

Updated on July 1, 2025

Contact Information

Department of Computer Science
35 Olden St Rm 423
Princeton, NJ 08540, USA

Tel: (609)-258-1203
E-mail: jiadeng@princeton.edu
Web: `https://www.cs.princeton.edu/~jiadeng`

Employment

Professor, Department of Computer Science, Princeton University	7/2025-Present
Associate Professor, Department of Computer Science, Princeton University	1/2023-6/2025
Assistant Professor, Department of Computer Science, Princeton University	9/2018-1/2023
Assistant Professor, Computer Science and Engineering, University of Michigan	9/2014-8/2018
Postdoc (consulting), Google, Mountain View	10/2013-8/2014
Postdoctoral Scholar, Stanford University	7/2012-10/2013
Research Intern, Microsoft Research Silicon Valley	6/2010-9/2010
Software Engineering Intern, Google, Mountain View	6/2007-9/2007

Education

Princeton University	Princeton, NJ
Ph.D. in Computer Science	2012
M.A. in Computer Science	2008
Tsinghua University	Beijing, China
B.Eng. in Computer Science	2006

Honors and Awards

Best Paper Award Candidate, European Conference on Computer Vision (ECCV),	2024
Best Student Paper Award, International Conference on 3D Vision (3DV)	2021
Best Paper Award, European Conference on Computer Vision (ECCV)	2020
E. Lawrence Keyes, Jr./Emerson Electric Co. Faculty Advancement Award	2020
ONR Young Investigator Award	2020
NSF CAREER Award	2020
PAMI Longuet-Higgins Prize	2019
Alfred P. Sloan Research Fellowship	2018
Google Faculty Research Award	2017
Amazon Research Award	2017
ZF TRW Automotive Endowed Research Award	2017
PAMI Mark Everingham Prize	2016
Google Faculty Research Award	2015
Yahoo ACE (Academic Career Enhancement) Award	2014
Best Paper Award, European Conference on Computer Vision (ECCV)	2014
Marr Prize (Best Paper Award), International Conference on Computer Vision (ICCV)	2013
Outstanding Graduate, Tsinghua University	2006
IBM Scholarship for Outstanding Students in China	2005
OOCL Scholarship, Tsinghua University	2004
Lenovo Scholarship, Tsinghua University	2003

Publications

Peer-Reviewed Articles

1. Karhan Kayan*, Stamatis Alexandropoulos*, Rishabh Jain, Yiming Zuo, Erich Liang, **Jia Deng** (*equal contribution). Princeton365: A Diverse Dataset with Accurate Camera Pose. *International Conference on Computer Vision (ICCV)*, 2025
2. Hongyu Wen, Yiming Zuo, Venkat Subramanian, Patrick Chen, **Jia Deng**. Seeing and Seeing Through the Glass: Real and Synthetic Data for Multi-Layer Depth Estimation. *International Conference on Computer Vision (ICCV)*, 2025
3. Yiming Zuo, Willow Yang, Zeyu Ma, **Jia Deng**. OMNI-DC: Highly Robust Depth Completion with Multiresolution Depth Integration. *International Conference on Computer Vision (ICCV)*, 2025
4. Yiming Zuo*, Karhan Kayan*, Maggie Wang, Kevin Jeon, **Jia Deng**, Thomas L. Griffiths (*equal contribution). Towards Foundation Models for 3D Vision: How Close Are We?. *International Conference on 3D Vision (3DV)*, 2025
5. Zeyu Ma, Alexander Raistrick, Lahav Lipson, **Jia Deng** View-Dependent Octree-based Mesh Extraction in Unbounded Scenes for Procedural Synthetic Data *International Conference on 3D Vision (3DV)*, 2025
6. Beining Han, Meenal Parakh, Derek Geng, Jack A Defay, Luyang Gan, **Jia Deng**. FetchBench: A Simulation Benchmark for Robot Fetching. *Conference on Robot Learning (CoRL)*, 2024
7. Yiming Zuo, **Jia Deng**. OGNI-DC: Robust Depth Completion with Optimization-Guided Neural Iterations. *European Conference on Computer Vision (ECCV)*, 2024
8. Yihan Wang, Lahav Lipson, **Jia Deng**. SEA-RAFT: Simple, Efficient, Accurate RAFT for Optical Flow. *European Conference on Computer Vision (ECCV)*, 2024
9. Hongyu Wen, Erich Liang, **Jia Deng**. LayeredFlow: A Real-World Benchmark for Non-Lambertian Multi-Layer Optical Flow. *European Conference on Computer Vision (ECCV)*, 2024
10. Lahav Lipson, Zachary Teed, **Jia Deng**. Deep Patch Visual SLAM. *European Conference on Computer Vision (ECCV)*, 2024
11. Alexander Raistrick*, Lingjie Mei*, Karhan Kayan*, David Yan, Yiming Zuo, Beining Han, Hongyu Wen, Meenal Parakh, Stamatis Alexandropoulos, Lahav Lipson, Zeyu Ma, **Jia Deng**. Infinigen Indoors: Photorealistic Indoor Scenes using Procedural Generation. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024
12. Lahav Lipson, **Jia Deng**. Multi-Session SLAM with Differentiable Wide-Baseline Pose Optimization *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024
13. Zhangir Azerbayev, Hailey Schoelkopf, Keiran Paster, Marco Dos Santos, Stephen McAleer, Albert Q. Jiang, **Jia Deng**, Stella Biderman, Sean Welleck. Llemma: An Open Language Model For Mathematics. *International Conference on Learning Representations (ICLR)*, 2024.
14. Hei Law, **Jia Deng**. Label-Free Synthetic Pretraining of Object Detectors. *Winter Conference on Applications of Computer Vision (WACV)*, 2024.
15. Zachary Teed*, Lahav Lipson*, **Jia Deng**. Deep Patch Visual Odometry *Neural Information Processing Systems (NeurIPS)*, 2023. (*equal contribution)
16. Agrim Gupta, Jiajun Wu, **Jia Deng**, Li Fei-Fei. Siamese Masked Autoencoders. *Neural Information Processing Systems (NeurIPS)*, 2023
17. Alexandre Kirchmeyer, **Jia Deng**. Convolutional Networks with Oriented 1D Kernels. *International Conference on Computer Vision (ICCV)*, 2023
18. Alexander Raistrick*, Lahav Lipson*, Zeyu Ma*, Lingjie Mei, Mingzhe Wang, Yiming Zuo, Karhan Kayan, Hongyu Wen, Beining Han, Yihan Wang, Alejandro Newell, Hei Law, Ankit Goyal, Kaiyu Yang, **Jia Deng**. Infinite Photorealistic Worlds using Procedural Generation.

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023. (*equal contribution)

19. Yiming Zuo, **Jia Deng**. View Synthesis with Sculpted Neural Points. *International Conference on Learning Representations (ICLR)*, 2023
20. Kaiyu Yang, **Jia Deng**. Learning Symbolic Rules for Reasoning in Quasi-Natural Language. *Transactions on Machine Learning Research (TMLR)*, 2023.
21. Kaiyu Yang, **Jia Deng**, Danqi Chen. Generating Natural Language Proofs with Verifier-Guided Search. *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022
22. Ankit Goyal, Alexey Bochkovskiy, **Jia Deng**, Vladlen Koltun. Non-deep Networks. *Neural Information Processing Systems (NeurIPS)*, 2022
23. Zeyu Ma, Zachary Teed, **Jia Deng**. Multiview Stereo with Cascaded Epipolar RAFT. *European Conference on Computer Vision (ECCV)*, 2022
24. Kaiyu Yang, Jacqueline Yau, Li Fei-Fei, **Jia Deng**, Olga Russakovsky. A Study of Face Obfuscation in ImageNet. *International Conference on Machine Learning (ICML)*, 2022
25. Ankit Goyal, Arsalan Mousavian, Chris Paxton, Yu-Wei Chao, Brian Okorn, **Jia Deng**, Dieter Fox. IFOR: Iterative Flow Minimization for Robotic Object Rearrangement *IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022*
26. Lahav Lipson, Zachary Teed, Ankit Goyal, **Jia Deng**. Coupled Iterative Refinement for 6D Multi-Object Pose Estimation *IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022*
27. Lahav Lipson, Zachary Teed, **Jia Deng**. RAFT-Stereo: Multilevel Recurrent Field Transforms for Stereo Matching. International Conference on 3D Vision (3DV), 2021. **Best Student Paper Award**
28. Zachary Teed, **Jia Deng**. DROID-SLAM: Deep Visual SLAM for Monocular, Stereo, and RGB-D Cameras. *Neural Information Processing Systems (NeurIPS)*, 2021
29. Ankit Goyal, Hei Law, Bowei Liu, Alejandro Newell, **Jia Deng**. Revisiting Point Cloud Shape Classification with a Simple and Effective Baseline. *International Conference on Machine Learning (ICML)*, 2021
30. Zachary Teed, **Jia Deng**. Tangent Space Backpropagation for 3D Transformation Groups. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021
31. Zachary Teed, **Jia Deng**. RAFT-3D: Scene Flow using Rigid-Motion Embeddings. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021
32. Lanlan Liu, Yuting Zhang, **Jia Deng**, Stefano Soattos. Dynamically Grown Generative Adversarial Networks. *AAAI Conference on Artificial Intelligence (AAAI)*, 2021
33. Yu-Wei Chao, Jimei Yang, Weifeng Chen, **Jia Deng**. Learning to Sit: Synthesizing Human-Chair Interactions via Hierarchical Control. *AAAI Conference on Artificial Intelligence (AAAI)*, 2021
34. Mingzhe Wang, **Jia Deng**. Learning to Prove Theorems by Learning to Generate Theorems. *Neural Information Processing Systems (NeurIPS)*, 2020
35. Ankit Goyal, Kaiyu Yang, Dawei Yang, **Jia Deng**. Rel3D: A Minimally Contrastive Benchmark for Grounding Spatial Relations in 3D. *Neural Information Processing Systems (NeurIPS)*, 2020
36. Kaiyu Yang, **Jia Deng**. Strongly Incremental Constituency Parsing with Graph Neural Networks *Neural Information Processing Systems (NeurIPS)*, 2020
37. Hei Law, Yun Teng, Olga Russakovsky, **Jia Deng**. CornerNet-Lite: Efficient Keypoint Based Object Detection. *British Machine Vision Conference (BMVC)*, 2020

38. Zachary Teed, **Jia Deng**. RAFT: Recurrent All-Pairs Field Transforms for Optical Flow. *European Conference on Computer Vision (ECCV)*, 2020. **Best Paper Award**.
39. Lanlan Liu, Mingzhe Wang, **Jia Deng**. A Unified Framework of Surrogate Loss by Refactoring and Interpolation. *European Conference on Computer Vision (ECCV)*, 2020.
40. Ankit Goyal, **Jia Deng**. PackIt: A Virtual Environment for Geometric Planning. *International Conference on Machine Leaning (ICML)*, 2020
41. Alejandro Newell, **Jia Deng**. How Useful is Self-Supervised Pretraining for Visual Tasks? *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
42. Weifeng Chen, Shengyi Qian, David Fan, Noriyuki Kojima, Max Hamilton, **Jia Deng**. OASIS: A Large-Scale Dataset for Single Image 3D in the Wild. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
43. Dawei Yang, **Jia Deng**. Learning to Generate Synthetic 3D Training Data through Hybrid Gradient. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
44. Zachary Teed, **Jia Deng**. DeepV2D: Video to Depth with Differentiable Structure from Motion. *International Conference on Learning Representations (ICLR)*, 2020.
45. Jonathan C. Stroud, David A. Ross, Chen Sun, **Jia Deng**, Rahul Sukthankar. D3D: Distilled 3D Networks for Video Action Recognition. *Winter Conference on Applications of Computer Vision (WACV)*, 2020.
46. Kaiyu Yang, Olga Russakovsky, **Jia Deng**. SpatialSense: An Adversarially Crowdsourced Benchmark For Spatial Relation Recognition. *International Conference on Computer Vision (ICCV)*, 2019.
47. Lanlan Liu, Michael Muelly, **Jia Deng**, Tomas Pfister, Li-Jia Li. Generative Modeling for Small-Data Object Detection. *International Conference on Computer Vision (ICCV)*, 2019.
48. Kaiyu Yang, **Jia Deng**. Learning to Prove Theorems via Interacting with Proof Assistants. *International Conference on Machine Learning (ICML)*, 2019.
49. Oana Ignat, Laura Burdick, **Jia Deng**, Rada Mihalcea. Identifying Visible Actions in Lifestyle Vlogs, *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2019.
50. Weifeng Chen, Shengyi Qian, **Jia Deng**. Learning Single-Image Depth from Videos using Quality Assessment Networks. *IEEE-CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.
51. Dawei Yang*, Chaowei Xiao*, Bo Li, **Jia Deng**, Mingyan Liu. MeshAdv: Adversarial Meshes for Visual Recognition. *IEEE-CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019. (*equal contribution)
52. Hei Law, **Jia Deng**. CornerNet: Detecting Objects as Paired Keypoints. *European Conference on Computer Vision (ECCV)*, 2018
53. Ankit Goyal, **Jia Deng**. Think Visually: Question Answering through Virtual Imagery. *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2018
54. Dawei Yang, **Jia Deng**. Shape from Shading through Shape Evolution. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018
55. Lei Huang, Dawei Yang, Bo Lang, **Jia Deng**. Decorrelated Batch Normalization. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018
56. Yu-Wei Chao, Sudheendra Vijayanarasimhan, Bryan Seybold, David Ross, **Jia Deng**, Rahul Sukthankar. Rethinking the Faster R-CNN Architecture for Temporal Action Localization. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018
57. Mahmoud Azab, Mingzhe Wang, Max Smith, Noriyuki Kojima, **Jia Deng**, Rada Mihalcea. Speaker Naming in Movies. *Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, 2018

58. Lanlan Liu, **Jia Deng**. Dynamic Deep Neural Networks: Optimizing Accuracy-Efficiency Trade-offs by Selective Execution. *AAAI Conference on Artificial Intelligence (AAAI)*, 2018

59. Yu-Wei Chao, Yunfan Liu, Xieyang Liu, Huayi Zeng, **Jia Deng**. Learning to Detect Human-Object Interactions. *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2018

60. Mingzhe Wang*, Yihe Tang*, Jian Wang, **Jia Deng**. Premise Selection for Theorem Proving by Deep Graph Embedding. *Neural Information Processing Systems (NeurIPS)*, 2017. (*equal contribution)

61. Alejandro Newell, **Jia Deng**. Pixels to Graphs by Associative Embedding. *Neural Information Processing Systems (NeurIPS)*, 2017.

62. Alejandro Newell, Zhiao Huang, **Jia Deng**. Associative Embedding: End-to-End Learning for Joint Detection and Grouping. *Neural Information Processing Systems (NeurIPS)*, 2017.

63. Weifeng Chen, Donglai Xiang, **Jia Deng**. Surface Normals in the Wild. *International Conference on Computer Vision (ICCV)*, 2017

64. Yu-Wei Chao, Jimei Yang, Brian Price, Scott Cohen, **Jia Deng**. Forecasting Human Dynamics from Static Images. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017

65. Zehuan Yuan, Jonathan Stroud, Tong Lu, **Jia Deng**. Temporal Action Localization by Structured Maximal Sums. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017

66. Timnit Gebru, Jonathan Krause, **Jia Deng**, Li Fei-Fei. Scalable annotation of fine-grained categories without experts. *Conference on Human Factors in Computing Systems (CHI)*, 2017

67. Timnit Gebru, Jonathan Krause, Yilun Wang, Duyun Chen, **Jia Deng**, Erez Lieberman Aiden, Li Fei-Fei. Using deep learning and Google Street View to estimate the demographic makeup of neighborhoods across the United States. *Proceedings of the National Academy of Sciences (PNAS)*, 2017

68. Timnit Gebru, Jonathan Krause, Yilun Wang, Duyun Chen, **Jia Deng**, Li Fei-Fei. Fine-Grained Car Detection for Visual Census Estimation. *AAAI Conference on Artificial Intelligence (AAAI)*, 2017

69. Hei Law, Khurshid Ghani, **Jia Deng**. Surgeon Technical Skill Assessment using Computer Vision based Analysis. *Machine Learning for Healthcare (MLHC)*, 2017.

70. Weifeng Chen, Zhao Fu, Dawei Yang, **Jia Deng**. Single-Image Depth Perception in the Wild. *Neural Information Processing Systems (NeurIPS)*, 2016.

71. Mingzhe Wang, Mahmoud Azab, Noriyuki Kojima, Rada Mihalcea, **Jia Deng**. Structured Matching for Phrase Localization. *European Conference on Computer Vision (ECCV)*, 2016

72. Alejandro Newell, Kaiyu Yang, **Jia Deng**. Stacked Hourglass Networks for Human Pose Estimation. *European Conference on Computer Vision (ECCV)*, 2016.

73. Vicente Ordonez, Wei Liu, **Jia Deng**, Yejin Choi, Alexander C. Berg, Tamara L. Berg. *Learning to Name Objects. Communications of the ACM*, March 2016.

74. **Jia Deng**, Jonathan Krause, Michael Stark, Li Fei-Fei. Leveraging the Wisdom of the Crowd for Fine-Grained Recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*, 2016.

75. Yu-Wei Chao, Zhan Wang, Yugeng He, Jiaxuan Wang, **Jia Deng**. HICO: A Benchmark for Recognizing Human-Object Interactions in Images. *International Conference on Computer Vision (ICCV)*, 2015.

76. Nan Ding, **Jia Deng**, Kevin Murphy, Hartmut Neven. Probabilistic Label Relation Graphs with Ising Models. *International Conference on Computer Vision (ICCV)*, 2015.

77. Vignesh Ramanathan, Congcong Li, **Jia Deng**, Wei Han, Zhen Li, Kunlong Gu, Yang Song, Samy Bengio, Charles Rosenberg, Li Fei-Fei. Learning semantic relationships for better action retrieval in images. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015.

78. Yu-Wei Chao, Zhan Wang, Rada Mihalcea, **Jia Deng**. Mining Semantic Affordances of Visual Object Categories. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015.

79. Vicente Ordonez, Wei Liu, **Jia Deng**, Yejin Choi, Alexander C. Berg, Tamara L. Berg. Predicting Entry-Level Categories. *International Journal of Computer Vision (IJCV)*, 2015.

80. Olga Russakovsky*, **Jia Deng***, Hao Su, Jonathan Krause, Sanjeev Satheesh, Sean Ma, Zhiheng Huang, Andrej Karpathy, Aditya Khosla, Michael Bernstein, Alexander C. Berg, Li Fei-Fei. ImageNet Large Scale Visual Recognition Challenge. *International Journal of Computer Vision (IJCV)*, 2015. (*equal contribution).

81. **Jia Deng**, Nan Ding, Yangqing Jia, Andrea Frome, Kevin Murphy, Samy Bengio, Yuan Li, Hartmut Neven, Hartwig Adam. Large-Scale Object Classification Using Label Relation Graphs. *European Conference on Computer Vision (ECCV)*, 2014. **Best Paper Award**.

82. Jonathan Krause, Timit Gebru, **Jia Deng**, Jia Li, Li Fei-Fei. Learning Features and Parts for Fine-Grained Recognition. *International Conference on Pattern Recognition (ICPR)*, 2014.

83. **Jia Deng**, Olga Russakovsky, Jonathan Krause, Michael Bernstein, Alexander C. Berg and Li Fei-Fei. Scalable Multi-Label Annotation. *ACM Conference on Human Factors in Computing Systems (CHI)*, 2014.

84. Jonathan Krause, Michael Stark, **Jia Deng**, Li Fei-Fei. 3D Object Representations for Fine-Grained Categorization. *ICCV '13 Workshop on 3D Representation and Recognition (3dRR-13)*, 2013.

85. Olga Russakovsky, **Jia Deng**, Zhiheng Huang, Alex Berg, Li Fei-Fei. Detecting avocados to zucchinis: what have we done, and where are we going? *International Conference on Computer Vision (ICCV)*, 2013.

86. Vicente Ordonez, **Jia Deng**, Yejin Choi, Alex Berg, Tamara Berg. From Large Scale Image Categorization to Entry-Level Categories. *International Conference on Computer Vision (ICCV)*, 2013. **Marr Prize (Best Paper Award)**.

87. **Jia Deng**, Jonathan Krause, and Li Fei-Fei. Fine-Grained Crowdsourcing for Fine-Grained Recognition. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2013.

88. Hao Su, **Jia Deng**, and Li Fei-Fei. Crowdsourcing Annotations for Visual Object Detection. *AAAI Human Computation Workshop*, 2012.

89. **Jia Deng**, Jonathan Krause, Alex Berg, and Li Fei-Fei. Hedging Your Bets: Optimizing Accuracy-Specificity Trade-offs in Large-Scale Visual Recognition. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012.

90. **Jia Deng**, Sanjeev Satheesh, Alex Berg, and Li Fei-Fei. Fast and Balanced: Efficient Label Tree Learning for Large Scale Object Recognition. *Advances in Neural Information Processing Systems (NeurIPS)*, 2011.

91. **Jia Deng**, Alex Berg, and Li Fei-Fei. Hierarchical Semantic Indexing for Large Scale Image Retrieval. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2011.

92. **Jia Deng**, Alex Berg, Kai Li, and Li Fei-Fei. What does classifying more than 10,000 image categories tell us? *European Conference on Computer Vision (ECCV)*, 2010.

93. **Jia Deng**, Wei Dong, Richard Socher, Li-Jia Li, Kai Li and Li Fei-Fei. ImageNet: A Large-Scale Hierarchical Image Database. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2009.

94. Brandon Collins, **Jia Deng**, Kai Li, and Li Fei-Fei. Towards scalable dataset construction: An active learning approach. *European Conference on Computer Vision (ECCV)*, 2008.
95. Tim Weyrich, **Jia Deng**, Connelly Barnes, Szymon Rusinkiewicz, and Adam Finkelstein. Digital Bas-Relief From 3D Scenes. *ACM Transactions on Graphics (Proc. SIGGRAPH)*. 2007.

Technical Reports

1. Yihan Wang, **Jia Deng**. WAFT: Warping-Alone Field Transforms for Optical Flow. *arXiv:2506.21526*, 2025
2. Meenal Parakh, Alexandre Kirchmeyer, Beining Han, **Jia Deng**. AnyBody: A Benchmark Suite for Cross-Embodiment Manipulation. *arXiv:2505.14986*, 2025
3. Abhishek Joshi, Beining Han, Jack Nugent, Yiming Zuo, Jonathan Liu, Hongyu Wen, Stamatis Alexandropoulos, Tao Sun, Alexander Raistrick, Gaowen Liu, Yi Shao, **Jia Deng**. Infinigen-Sim: Procedural Generation of Articulated Simulation Assets. *arXiv:2505.10755*, 2025
4. Beining Han, Abhishek Joshi, **Jia Deng**. Zero-shot Sim2Real Transfer for Magnet-Based Tactile Sensor on Insertion Tasks. *arXiv:2505.02915*, 2025
5. David Yan, Alexander Raistrick, **Jia Deng**. Procedural Dataset Generation for Zero-Shot Stereo Matching. *arXiv:2504.16930*, 2025
6. Dhruv Batra, Angel X. Chang, Sonia Chernova, Andrew J. Davison, **Jia Deng**, Vladlen Koltun, Sergey Levine, Jitendra Malik, Igor Mordatch, Roozbeh Mottaghi, Manolis Savva, Hao Su. Rearrangement: A Challenge for Embodied AI. *arXiv:2011.01975*, 2020.
7. Alejandro Newell, Lu Jiang, Chong Wang, Li-Jia Li, **Jia Deng**. Feature Partitioning for Efficient Multi-Task Architectures. *arXiv:1908.04339*, 2019.
8. Noriyuki Kojima, **Jia Deng**. To Learn or Not to Learn: Analyzing the Role of Learning for Navigation in Virtual Environments. *arXiv:1907.11770*, 2019.

Service

Program Committee

- **Area Chair**. International Conference on Machine Learning (ICML) 2021-2022
  Area Chair. Neural Information Processing Systems (NeurIPS) 2018-2022
  Area Chair. International Conference on Learning Representations (ICLR) 2021
  Area Chair. Computer Vision and Pattern Recognition (CVPR) 2016,2018-2021,2023, 2025
  Area Chair. European Conference on Computer Vision (ECCV) 2020
  Area Chair. International Conference on Computer Vision (ICCV) 2023, 2025
- **Program Co-chair**. BigVision Workshop 2012, 2014, 2015, 2016
- **Program Co-chair**. CVPR workshop on Computer Vision and Human Computation 2014
- **Co-Organizer**. Bay Area Vision Meeting 2012
- **Co-Organizer**. ImageNet Large Scale Visual Recognition Challenge 2010-2017

Reviewer

- International Journal of Computer Vision (IJCV).
- Transactions on Pattern Recognition and Machine Intelligence (TPAMI)
- Journal of Machine Learning Research (JMLR)
- Transactions on Image Processing (TIP)
- Transactions on Multimedia (TMM)
- Computer Aided Design (CAD)
- Neural Information Processing Systems (NeurIPS) 2012-2017
- European Conference on Computer Vision (ECCV) 2012-2018
- International Conference on Computer Vision (ICCV) 2013-2017

- AAAI Conference on Artificial Intelligence (AAAI) 2014
- International Conference and Exhibition on Computer Graphics and Interactive Techniques (SIGGRAPH) 2013
- ACM Symposium on User Interface Software and Technology (UIST) 2014
- ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) 2014

Panelist

- National Science Foundation 2015, 2017, 2018-2020, 2022-2024

Visiting Positions

Visiting Assistant Professor Ann Arbor, MI
Computer Science and Engineering, University of Michigan 9/2013-8/2014

Visiting Scholar Stanford, CA
Stanford University 10/2013-8/2014

Visiting Student Stanford, CA
Stanford University 9/2009-6/2012