



## Jiajun Wu

Assistant Professor of Computer Science and, by courtesy, of Psychology

### CONTACT INFORMATION

- **Administrator**

Helen Roman - Faculty Administrator

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### Bio

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#### BIO

Jiajun Wu is an Assistant Professor of Computer Science and, by courtesy, of Psychology at Stanford University, working on computer vision, machine learning, robotics, and computational cognitive science. Before joining Stanford, he was a Visiting Faculty Researcher at Google Research. He received his PhD in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology. Wu's research has been recognized through the Young Investigator Programs (YIP) by ONR and by AFOSR, the NSF CAREER award, the Okawa research grant, the AI's 10 to Watch by IEEE Intelligent Systems, paper awards and finalists at ICCV, CVPR, SIGGRAPH Asia, ICRA, CoRL, and IROS, dissertation awards from ACM, AAAI, and MIT, the 2020 Samsung AI Researcher of the Year, and faculty research awards from Microsoft, Google, Nvidia, J.P. Morgan, Samsung, Amazon, and Meta.

#### ACADEMIC APPOINTMENTS

- Assistant Professor, Computer Science
- Assistant Professor (By courtesy), Psychology
- Member, Bio-X
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

#### HONORS AND AWARDS

- Faculty Fellowship, Microsoft Research (2026)
- Academic Grant, Nvidia (2025)
- Research Scholar Award, Google (2025)
- Best Paper Award Finalist, ICRA, IEEE (2025)
- Research Grant, Okawa Foundation (2024)
- CAREER Award, NSF (2024)

- Young Investigator Program (YIP), ONR (2024)
- AI's 10 to Watch, IEEE Intelligent Systems (2024)
- Best Paper Award, ICRA, IEEE (2024)
- Innovators Under 35 Asia Pacific, MIT Technology Review (2024)
- Young Investigator Program (YIP), AFOSR (2023)
- Best Paper Award, SIGGRAPH Asia, ACM (2023)
- Best Systems Paper Award, CoRL (2023)
- Best Paper Award Finalist, ICCV, IEEE/CVF (2023)
- Best Paper Award Candidate, CVPR, IEEE/CVF (2023)
- Global Research Outreach (GRO) Award, Samsung (2023)
- New Faculty Highlights, AAAI (2023)
- Best Paper Award Nominee, CoRL (2022)
- Faculty Research Award, J.P. Morgan (2022)
- 30 Under 30, Science, Forbes (2022)
- Early Career Professor Award Finalist, Agilent (2022)
- Research Award, Meta (2021)
- Research Award, Amazon (2021)
- AI Researcher of the Year, Samsung (2020)
- Global Research Outreach (GRO) Award, Samsung (2020)
- George M. Sprowls PhD Thesis Award in Artificial Intelligence and Decision-Making, MIT (2020)
- Doctoral Dissertation Award Honorable Mention, ACM (2019)
- Dissertation Award, AAAI/ACM SIGAI (2019)
- PhD Fellowship, Facebook (2017--2019)
- Best Paper Award on Cognitive Robotics, IROS, IEEE/RSJ (2018)
- PhD Fellowship, Samsung (2016--2017)
- Graduate Fellowship, Nvidia (2016--2017)
- Research Fellowship, Adobe (2015)
- Edwin S. Webster Fellowship, MIT (2014)

## PROGRAM AFFILIATIONS

- Stanford SystemX Alliance
- Symbolic Systems Program

## PROFESSIONAL EDUCATION

- Ph.D., MIT , EECS
- S.M., MIT , EECS

## LINKS

- Personal Site: <https://jiajunwu.com/>
- Google Scholar: <https://scholar.google.com/citations?user=2efgcS0AAAAJ&hl=en&oi=ao>
- DBLP: <https://dblp.dagstuhl.de/pid/117/4768.html>

## Teaching

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### COURSES

#### 2025-26

- Minds and Machines: CS 24, LINGUIST 35, PHIL 99, PSYCH 35, SYMSYS 1, SYMSYS 200 (Spr)

#### 2024-25

- Minds and Machines: CS 24, LINGUIST 35, PHIL 99, PSYCH 35, SYMSYS 1, SYMSYS 200 (Win)

#### 2023-24

- Computer Graphics in the Era of AI: CS 348I (Win)
- Minds and Machines: CS 24, LINGUIST 35, PHIL 99, PSYCH 35, SYMSYS 1, SYMSYS 200 (Win)

#### 2022-23

- Minds and Machines: CS 24, LINGUIST 35, PHIL 99, PSYCH 35, SYMSYS 1, SYMSYS 200 (Aut)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Joao Araujo, Cem Gokmen, Hyunwoo Gu, Zhengfei Kuang, Wanhee Lee, Haochen Shi, Priya Sundaesan, Rahul Venkatesh, Keenon Werling, Josiah Wong

#### Postdoctoral Faculty Sponsor

Zhanpeng He, Huang Huang, Yiqing Xu

#### Orals Evaluator

Joao Araujo, Cristobal Eyzaguirre, Cem Gokmen, Joy Hsu, Priya Sundaesan, Stephen Tian, Koven Yu, Yunzhi Zhang

#### Doctoral Dissertation Advisor (AC)

Yue Gao, Joy Hsu, Kyle Sargent, Stephen Tian, Koven Yu, Yunzhi Zhang

#### Master's Program Advisor

Aditya Bora, Willy Chan, Tim Chen, Yudong Chen, Abhinav Chinta, Vijay Daita, Tesvara Jiang, Abel John, Akaash Kolluri, Anubha Mahajan, Ashley Raigosa, Tia Vasudeva, Matthew Vilaysack, Bodo Wirth, Suzannah Wistreich, Renee Zbizika, Chuyi Zhang, Jessica Zhang, Fangjun Zhou

#### Doctoral Dissertation Co-Advisor (AC)

Eric Chan, Cristobal Eyzaguirre, Arushi Gupta, Emily Jin, Chaitanya Patel, Adam Sun, Alexa Tartaglioni

#### Doctoral (Program)

Ziyu Chen, Chen Geng, Joy Hsu, Zizhang Li, Kyle Sargent, Jeff Tan, Stephen Tian, Koven Yu, Yanjie Ze, Yunzhi Zhang

## Publications

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### PUBLICATIONS

- **A review of learning-based dynamics models for robotic manipulation.** *Science robotics*  
Ai, B., Tian, S., Shi, H., Wang, Y., Pfaff, T., Tan, C., Christensen, H. I., Su, H., Wu, J., Li, Y.  
2025; 10 (106): eadt1497
- **WonderWorld: Interactive 3D Scene Generation from a Single Image**  
Yu, H., Duan, H., Herrmann, C., Freeman, W. T., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 5916-5926

- **The Scene Language: Representing Scenes with Programs, Words, and Embeddings**  
Zhang, Y., Li, Z., Zhou, M., Wu, S., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 24625-24634
- **Birth and Death of a Rose**  
Geng, C., Zhang, Y., Wu, S., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 26102-26113
- **Physical scene understanding** *AI MAGAZINE*  
Wu, J.  
2024
- **Neurosymbolic Models for Computer Graphics** *COMPUTER GRAPHICS FORUM*  
Ritchie, D., Guerrero, P., Jones, R., Mitra, N. J., Schulz, A., Willis, K. D. D., Wu, J.  
2023; 42 (2): 545-568
- **REALIMPACT: A Dataset of Impact Sound Fields for Real Objects**  
Clarke, S., Xu, J., Gao, R., Wang, J., Wang, M., James, D. L., Rau, M., Wu, J., IEEE  
IEEE COMPUTER SOC.2023: 1516-1525
- **RoboCook: Long-Horizon Elasto-Plastic Object Manipulation with Diverse Tools**  
Shi, H., Xu, H., Clarke, S., Li, Y., Wu, J.  
edited by Tan, J., Toussaint, M., Darvish, K.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2023
- **Seeing a Rose in Five Thousand Ways**  
Zhang, Y., Wu, S., Snavely, N., Wu, J., IEEE  
IEEE COMPUTER SOC.2023: 962-971
- **OBJECTFOLDER 2.0: A Multisensory Object Dataset for Sim2Real Transfer**  
Gao, R., Si, Z., Chang, Y., Clarke, S., Bohg, J., Li Fei-Fei, Yuan, W., Wu, J., IEEE COMP SOC  
IEEE COMPUTER SOC.2022: 10588-10598
- **3D Shape Generation and Completion through Point-Voxel Diffusion**  
Zhou, L., Du, Y., Wu, J., IEEE  
IEEE.2021: 5806-5815
- **Visual Dynamics: Stochastic Future Generation via Layered Cross Convolutional Networks** *IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE*  
Xue, T., Wu, J., Bouman, K. L., Freeman, W. T.  
2019; 41 (9): 2236–50
- **Learning a Probabilistic Latent Space of Object Shapes via 3D Generative-Adversarial Modeling**  
Wu, J., Zhang, C., Xue, T., Freeman, W. T., Tenenbaum, J. B.  
edited by Lee, D. D., Sugiyama, M., Luxburg, U. V., Guyon, Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2016
- **Galileo: Perceiving Physical Object Properties by Integrating a Physics Engine with Deep Learning**  
Wu, J., Yildirim, I., Lim, J. J., Freeman, W. T., Tenenbaum, J. B.  
edited by Cortes, C., Lawrence, N. D., Lee, D. D., Sugiyama, M., Garnett, R.  
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2015
- **Deep Sketch-Based 3D Modeling: A Survey** *COMPUTER GRAPHICS FORUM*  
Tono, A., Wu, J., Wetzstein, G., Armeni, I., Subramonyam, H., Landay, J., Fischer, M.  
2026
- **Building Intelligent Agents with Neuro-Symbolic Concepts** *COMMUNICATIONS OF THE ACM*  
Mao, J., Tenenbaum, J. B., Wu, J.  
2026; 69 (2)

- **3D Congealing: 3D-Aware Image Alignment in the Wild**  
Zhang, Y., Li, Z., Raj, A., Engelhardt, A., Li, Y., Hou, T., Wu, J., Jampani, V.  
edited by Roth, S., Russakovsky, O., Sattler, T., Varol, G., Leonardis, A., Ricci, E.  
SPRINGER INTERNATIONAL PUBLISHING AG.2025: 387-404
- **Understanding Complexity in VideoQA via Visual Program Generation**  
Eyzaguirre, C., Vasiljevic, I., Dave, A., Wu, J., Ambrus, R., Kollar, T., Niebles, J., Tokmakov, P.  
edited by Singh, A., Fazel, M., Hsu, D., Lacoste-Julien, S., Berkenkamp, F., Maharaj, T., Wagstaff, K., Zhu, J.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2025: 15613-15636
- **Generalizable Humanoid Manipulation with 3D Diffusion Policies**  
Ze, Y., Chen, Z., Wang, W., Chen, T., He, X., Yuan, Y., Bin Peng, X., Wu, J.  
edited by Laugier, C., Atanasov, N., Birchfield, S., Cielniak, G., DeMattos, L., Fiorini, L., Giguere, P., Hashimoto, K., Ibanez-Guzman, J., Kamegawa, T., Lee, J., Laugier, C., Loianno, G., Luck, K., Maruyama, H., Martinet, P., Moradi, H., Nunes, U., Pettre, J., Pretto, A., Ranzani, T., Ronnau, A., Rossi, S., Rouse, E., Ruggiero, F., Simonin, O., Wang, D., Yang, M., Yoshida, E., Zhao, H.  
IEEE.2025: 2873-2880
- **Learning Smooth Humanoid Locomotion through Lipschitz-Constrained Policies**  
Chen, Z., He, X., Wang, Y., Liao, Q., Ze, Y., Li, Z., Sastry, S., Wu, J., Sreenath, K., Gupta, S., Peng, X.  
edited by Laugier, C., Atanasov, N., Birchfield, S., Cielniak, G., DeMattos, L., Fiorini, L., Giguere, P., Hashimoto, K., Ibanez-Guzman, J., Kamegawa, T., Lee, J., Laugier, C., Loianno, G., Luck, K., Maruyama, H., Martinet, P., Moradi, H., Nunes, U., Pettre, J., Pretto, A., Ranzani, T., Ronnau, A., Rossi, S., Rouse, E., Ruggiero, F., Simonin, O., Wang, D., Yang, M., Yoshida, E., Zhao, H.  
IEEE.2025: 4743-4750
- **Why Is Spatial Reasoning Hard for VLMs? An Attention Mechanism Perspective on Focus Areas**  
Chen, S., Zhu, T., Zhou, R., Zhang, J., Gao, S., Niebles, J., Geva, M., He, J., Wu, J., Li, M.  
edited by Singh, A., Fazel, M., Hsu, D., Lacoste-Julien, S., Berkenkamp, F., Maharaj, T., Wagstaff, K., Zhu, J.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2025: 9910-9932
- **TWIST: Teleoperated Whole-Body Imitation System**  
Ze, Y., Chen, Z., Araujo, J., Cao, Z., Peng, X., Wu, J., Liu, C.  
edited by Lim, J., Song, S., Park, H. W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2025: 2143-2154
- **BEHAVIOR ROBOT SUITE: Streamlining Real-World Whole-Body Manipulation for Everyday Household Activities**  
Jiang, Y., Zhang, R., Wong, J., Wang, C., Ze, Y., Yin, H., Gokmen, C., Song, S., Wu, J., Li Fei-Fei  
edited by Lim, J., Song, S., Park, H. W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2025: 1246-1281
- **FluidNexus: 3D Fluid Reconstruction and Prediction from a Single Video**  
Gao, Y., Yu, H., Zhu, B., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 26091-26101
- **LAYOUTVLM: Differentiable Optimization of 3D Layout via Vision-Language Models**  
Sun, F., Liu, W., Gu, S., Lim, D., Bhat, G., Tombari, F., Li, M., Haber, N., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 29469-29478
- **Lifting Motion to the 3D World via 2D Diffusion**  
Li, J., Liu, C., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 17518-17528
- **Anymate: A Dataset and Baselines for Learning 3D Object Rigging**  
Deng, Y., Zhang, Y., Geng, C., Wu, S., Wu, J.  
edited by Spencer, S. N.  
ASSOC COMPUTING MACHINERY.2025
- **Re-thinking Temporal Search for Long-Form Video Understanding**  
Ye, J., Wang, Z., Sun, H., Chandrasegaran, K., Durante, Z., Eyzaguirre, C., Bisk, Y., Niebles, J., Adeli, E., Li Fei-Fei, Wu, J., Li, M., IEEE  
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IEEE COMPUTER SOC.2025: 8579-8591

- **Category-Agnostic Neural Object Rigging**

He, G., Geng, C., Wu, S., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 22078-22088

- **PGC: Physics-Based Gaussian Cloth from a Single Pose**

Guo, M., Chiang, M., Santesteban, I., Sarafianos, N., Chen, H., Halimi, O., Bozic, A., Saito, S., Wu, J., Liu, C., Stuyck, T., Larionov, E., IEEE  
COMPUTER SOC  
IEEE COMPUTER SOC.2025: 21215-21225

- **Diffusion Self-Distillation for Zero-Shot Customized Image Generation**

Cai, S., Chan, E., Zhang, Y., Guibas, L., Wu, J., Wetzstein, G., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 18434-18443

- **Digital Twin Catalog: A Large-Scale Photorealistic 3D Object Digital Twin Dataset**

Dong, Z., Chen, K., Lv, Z., Yu, H., Zhang, Y., Zhang, C., Zhu, Y., Tian, S., Li, Z., Moffatt, G., Christofferson, S., Fort, J., Pan, et al  
IEEE COMPUTER SOC.2025: 753-763

- **UAD: Unsupervised Affordance Distillation for Generalization in Robotic Manipulation**

Tang, Y., Huang, W., Wang, Y., Li, C., Yuan, R., Zhang, R., Wu, J., Li Fei-Fei  
edited by Ott, C.  
IEEE.2025: 3822-3831

- **CRAFT: Designing Creative and Functional 3D Objects**

Guo, M., Tang, M., Cha, H., Zhang, R., Liu, C., Wu, J., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2025: 7215-7224

- **Controllable Human-Object Interaction Synthesis**

Li, J., Clegg, A., Mottaghi, R., Wu, J., Puig, X., Liu, C.  
edited by Leonardis, A., Ricci, E., Roth, S., Russakovsky, O., Sattler, T., Varol, G.  
SPRINGER INTERNATIONAL PUBLISHING AG.2025: 54-72

- **PhysDreamer: Physics-Based Interaction with 3D Objects via Video Generation**

Zhang, T., Yu, H., Wu, R., Feng, B. Y., Zheng, C., Snavely, N., Wu, J., Freeman, W. T.  
edited by Leonardis, A., Ricci, E., Roth, S., Russakovsky, O., Sattler, T., Varol, G.  
SPRINGER INTERNATIONAL PUBLISHING AG.2025: 388-406

- **Reconstruction and Simulation of Elastic Objects with Spring-Mass 3D Gaussians**

Zhong, L., Yu, H., Wu, J., Li, Y.  
edited by Leonardis, A., Ricci, E., Roth, S., Russakovsky, O., Sattler, T., Varol, G.  
SPRINGER INTERNATIONAL PUBLISHING AG.2025: 407-423

- **Ponymation: Learning Articulated 3D Animal Motions from Unlabeled Online Videos**

Sun, K., Litvak, D., Zhang, Y., Li, H., Wu, J., Wu, S.  
edited by Roth, S., Russakovsky, O., Sattler, T., Varol, G., Leonardis, A., Ricci, E.  
SPRINGER INTERNATIONAL PUBLISHING AG.2025: 100-119

- **MOTIVATING INFORMATION-SEEKING BEHAVIORS FOR NEW TECHNOLOGY ACROSS THE LIFE SPAN**

Chu, L., Patterson, K., Kim, T., Srivastava, S., Zhang, R., Wu, J., Li, F., Carstensen, L.  
OXFORD UNIV PRESS.2024: 647

- **DAILY AND TECHNOLOGICAL CHALLENGES AND NEEDS IN OLDER AGES: A MIXED METHODS STUDY**

Cruz, M., Chu, L., Gomezjurado Gonzalez, L., Zhang, R., Wu, J., Fei-Fei, L., Carstensen, L.  
OXFORD UNIV PRESS.2024

- **An Eulerian Vortex Method on Flow Maps** *ACM TRANSACTIONS ON GRAPHICS*

Wang, S., Deng, Y., Deng, M., Yu, H., Zhou, J., Chen, D., Komura, T., Wu, J., Zhu, B.  
2024; 43 (6)

- **Foundation models in robotics: Applications, challenges, and the future** *INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH*  
Firoozi, R., Tucker, J., Tian, S., Majumdar, A., Sun, J., Liu, W., Zhu, Y., Song, S., Kapoor, A., Hausman, K., Ichter, B., Driess, D., Wu, et al  
2024
- **Partial-View Object View Synthesis via Filtering Inversion**  
Sun, F., Tremblay, J., Blukis, V., Lin, K., Xu, D., Ivanovic, B., Karkus, P., Birchfield, S., Fox, D., Zhang, R., Li, Y., Wu, J., Pavone, et al  
IEEE COMPUTER SOC.2024: 453-463
- **D<sup>3</sup>Fields: Dynamic 3D Descriptor Fields for Zero-Shot Generalizable Rearrangement**  
Wang, Y., Zhang, M., Li, Z., Kelestemur, T., Driggs-Campbell, K., Wu, J., Fei-Fei, L., Li, Y.  
edited by Kroemer, O., Agrawal, P., Burgard, W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024
- **Learning Compositional Behaviors from Demonstration and Language**  
Liu, W., Nie, N., Zhang, R., Mao, J., Wu, J.  
edited by Kroemer, O., Agrawal, P., Burgard, W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024
- **Evaluating Real-World Robot Manipulation Policies in Simulation**  
Li, X., Hsu, K., Gu, J., Pertsch, K., Mees, O., Walke, H., Fu, C., Lunawat, I., Sieh, I., Kirmani, S., Levine, S., Wu, J., Finn, et al  
edited by Kroemer, O., Agrawal, P., Burgard, W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024
- **D<sup>3</sup>Fields: Dynamic 3D Descriptor Fields for Zero-Shot Generalizable Rearrangement**  
Wang, Y., Zhang, M., Li, Z., Kelestemur, T., Driggs-Campbell, K., Wu, J., Fei-Fei, L., Li, Y.  
edited by Kroemer, O., Agrawal, P., Burgard, W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024
- **TRANSIC: Sim-to-Real Policy Transfer by Learning from Online Correction**  
Jiang, Y., Wang, C., Zhang, R., Wu, J., Fei-Fei, L.  
edited by Kroemer, O., Agrawal, P., Burgard, W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024
- **View-Invariant Policy Learning via Zero-Shot Novel View Synthesis**  
Tian, S., Wulfe, B., Sargent, K., Liu, K., Zakharov, S., Guizilini, V., Wu, J.  
edited by Kroemer, O., Agrawal, P., Burgard, W.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024
- **ULIP-2: Towards Scalable Multimodal Pre-training for 3D Understanding**  
Xue, L., Yu, N., Zhang, S., Panagopoulou, A., Li, J., Martin-Martin, R., Wu, J., Xiong, C., Xu, R., Niebles, J., Savarese, S., IEEE Comp Soc  
IEEE COMPUTER SOC.2024: 27081-27091
- **Physically Grounded Vision-Language Models for Robotic Manipulation**  
Gao, J., Sarkar, B., Xia, F., Xiao, T., Wu, J., Ichter, B., Majumdar, A., Sadigh, D., IEEE  
IEEE.2024: 12462-12469
- **BEHAVIOR Vision Suite: Customizable Dataset Generation via Simulation**  
Ge, Y., Tang, Y., Xu, J., Gokmen, C., Li, C., Ai, W., Martinez, B., Aydin, A., Anvari, M., Chakravarthy, A. K., Yu, H., Wong, J., Srivastava, et al  
IEEE COMPUTER SOC.2024: 22401-22412
- **Efficient Imitation Learning with Conservative World Models**  
Kolev, V., Rafailov, R., Hatch, K., Wu, J., Finn, C.  
edited by Abate, A., Cannon, M., Margellos, K., Papachristodoulou, A.  
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2024: 1776-1789
- **Learning to Design 3D Printable Adaptations on Everyday Objects for Robot Manipulation**  
Guo, M., Liu, Z., Tian, S., Xie, Z., Wu, J., Liu, C., IEEE  
IEEE.2024: 824-830

- **Open X-Embodiment: Robotic Learning Datasets and RT-X Models**  
O'Neill, A., Rehman, A., Gupta, A., Maddukuri, A., Gupta, A., Padalkar, A., Lee, A., Pooley, A., Gupta, A., Mandlekar, A., Jain, A., Tung, A., Bewley, et al  
IEEE.2024: 6892-6903
- **Naturally Supervised 3D Visual Grounding with Language-Regularized Concept Learners**  
Feng, C., Hsu, J., Liu, W., Wu, J., IEEE  
IEEE COMPUTER SOC.2024: 13269-13278
- **HOLODECK: Language Guided Generation of 3D Embodied AI Environments**  
Yang, Y., Sun, F., Weihs, L., Vanderbilt, E., Herrasti, A., Han, W., Wu, J., Haber, N., Krishna, R., Liu, L., Callison-Burch, C., Yatskar, M., Kembhavi, et al  
IEEE COMPUTER SOC.2024: 16227-16237
- **Hearing Anything Anywhere**  
Wang, M., Sawata, R., Clark, S., Gao, R., Wu, S., Wu, J., IEEE  
IEEE COMPUTER SOC.2024: 11790-11799
- **Learning the 3D Fauna of the Web**  
Li, Z., Litvak, D., Li, R., Zhang, Y., Jakab, T., Rupperecht, C., Wu, S., Vedaldi, A., Wu, J., IEEE  
IEEE COMPUTER SOC.2024: 9752-9762
- **ZeroNVS: Zero-Shot 360-Degree View Synthesis from a Single Image**  
Sargent, K., Li, Z., Shah, T., Herrmann, C., Yu, H., Zhang, Y., Chan, E., Lagun, D., Li Fei-Fei, Sun, D., Wu, J., IEEE  
IEEE COMPUTER SOC.2024: 9420-9429
- **WonderJourney: Going from Anywhere to Everywhere**  
Yu, H., Duan, H., Hur, J., Sargent, K., Rubinstein, M., Freeman, W. T., Cole, F., Sun, D., Snively, N., Wu, J., Herrmann, C., IEEE COMPUTER SOC  
IEEE COMPUTER SOC.2024: 6658-6667
- **DiffSound: Differentiable Modal Sound Rendering and Inverse Rendering for Diverse Inference Tasks**  
Jin, X., Xu, C., Gao, R., Wu, J., Wang, G., Li, S., Spencer, S.  
ASSOC COMPUTING MACHINERY.2024
- **CityPulse: Fine-Grained Assessment of Urban Change with Street View Time Series**  
Huang, T., Wu, Z., Wu, J., Hwang, J., Rajagopal, R.  
edited by Wooldridge, M., Dy, J., Natarajan, S.  
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2024: 22123-22131
- **SkyScript: A Large and Semantically Diverse Vision-Language Dataset for Remote Sensing**  
Wang, Z., Prabha, R., Huang, T., Wu, J., Rajagopal, R.  
edited by Dy, J., Natarajan, S., Wooldridge, M.  
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2024: 5805-5813
- **RoboCraft: Learning to see, simulate, and shape elasto-plastic objects in 3D with graph networks** *INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH*  
Shi, H., Xu, H., Huang, Z., Li, Y., Wu, J.  
2023
- **Object Motion Guided Human Motion Synthesis** *ACM TRANSACTIONS ON GRAPHICS*  
Li, J., Wu, J., Liu, C.  
2023; 42 (6)
- **Fluid Simulation on Neural Flow Maps** *ACM TRANSACTIONS ON GRAPHICS*  
Deng, Y., Yu, H., Zhang, D., Wu, J., Zhu, B.  
2023; 42 (6)
- **Editing Motion Graphics Video via Motion Vectorization and Transformation** *ACM TRANSACTIONS ON GRAPHICS*  
Zhang, S., Ma, J., Wu, J., Ritchie, D., Agrawala, M.  
2023; 42 (6)

- **Differentiable Physics Simulation of Dynamics-Augmented Neural Objects** *IEEE ROBOTICS AND AUTOMATION LETTERS*  
Le Cleac'h, S., Yu, H., Guo, M., Howell, T., Gao, R., Wu, J., Manchester, Z., Schwager, M.  
2023; 8 (5): 2780-2787
- **STAP: Sequencing Task-Agnostic Policies**  
Agia, C., Migimatsu, T., Wu, J., Bohg, J., IEEE  
IEEE.2023: 7951-7958
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