

Chen Wang

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- EDUCATION** **Stanford University**, CA, US Sep 2020 – Present
Ph.D. student, Computer Science Department
Co-advisors: Prof. Fei-Fei Li and Prof. Silvio Savarese
- Shanghai Jiao Tong University**, Shanghai, China Sep 2015 – Jun 2020
Bachelor of Science in Computer Science and Engineering
Advisor: Prof. Cewu Lu
- PATENTS** Edward Adelson, Branden Romero, Filipe Fernandes Veiga, Shaoxiong Wang, **Chen Wang**
Learning physical features from tactile robotic exploration
International Application Published under the Patent Cooperation Treaty (PCT), WO 2022/087360 A1
- PUBLICATIONS** **Chen Wang**, Danfei Xu, Li Fei-Fei
Generalizable Task Planning through Representation Pretraining
Robotics and Automation Letters, RA-L 2022
- Chen Wang**, Claudia Pérez-D’Arpino, Danfei Xu, Li Fei-Fei, C. Karen Liu, Silvio Savarese
Co-GAIL: Learning Diverse Strategies for Human-Robot Collaboration
Conference on Robot Learning, CoRL 2021
- Ajay Mandlekar, Danfei Xu, Josiah Wong, Soroush Nasiriany, **Chen Wang**, Rohun Kulkarni, Li Fei-Fei, Silvio Savarese, Yuke Zhu, and Roberto Martín-Martín
What matters in learning from offline human demonstrations for robot manipulation
Conference on Robot Learning, CoRL 2021 Oral
- Chen Wang***, Rui Wang*, Ajay Mandlekar, Li Fei-Fei, Silvio Savarese, Danfei Xu
Generalization Through Hand-Eye Coordination: An Action Space for Learning Spatially-Invariant Visuomotor Control
International Conference on Intelligent Robots and Systems, IROS 2021
- Chen Wang***, Shaoxiong Wang*, Branden Romero, Filipe Veiga, Edward Adelson
SwingBot: Learning Physical Features from In-hand Tactile Exploration for Dynamic Swing-up Manipulation
International Conference on Intelligent Robots and Systems, IROS 2020 Best Paper Award
- Chen Wang**, Roberto Martín-Martín, Danfei Xu, Jun Lv, Cewu Lu, Li Fei-Fei, Silvio Savarese, Yuke Zhu
6-PACK: Category-level 6D Pose Tracker with Anchor-Based Keypoints
International Conference on Robotics and Automation, ICRA 2020
- Chen Wang**, Danfei Xu, Yuke Zhu, Roberto Martín-Martín, Cewu Lu, Li Fei-Fei, Silvio Savarese
DenseFusion: 6D Object Pose Estimation by Iterative Dense Fusion
Computer Vision and Pattern Recognition, CVPR 2019
- Junfeng Ding*, **Chen Wang***, Cewu Lu
Transferable Force-Torque Dynamics Model for Peg-in-hole Task
International Conference on Intelligent Robots and Systems, IROS 2019
- Chen Wang***, Junfeng Ding*, Xiangyu Chen, Zelin Ye, Jialu Wang, Ziruo Cai, Shixiang Gu, Cewu Lu
TendencyRL: Multi-stage discriminative hints for efficient goal-oriented reverse curriculum learning
International Conference on Intelligent Robots and Systems, IROS 2019
Deep Reinforcement Learning Symposium, NIPS 2017 symposium
- RESEARCH EXPERIENCE** **NVIDIA Research** at Santa Clara, CA, USA Jun 2022 – Sep 2022
- Research Intern
 - Project: Learning generalizable manipulation agent through large-scale high-level policy pretraining
 - Supervisor: Prof. Anima Anandkumar and Prof. Yuke Zhu

Perceptual Science Group at Massachusetts Institute of Technology, MA, USA

- Research Intern Sep 2019 – Mar 2020
 - Project: Learning Physical Features from In-hand Tactile Exploration (IROS 2020 Best Paper Award)
 - Supervisor: Prof. Edward Adelson and Prof. Ruth Rosenholtz

Stanford Vision and Learning Lab at Stanford University, CA, USA

- Research Intern Jun 2018 – Aug 2019
 - Project: Category-level 6-DoF Object Pose Tracking with Keypoints (ICRA 2020)
 - Supervisors: Prof. Silvio Savarese and Prof. Fei-Fei Li
 - Project: 6-DoF Object Pose Estimation for Robot Manipulation (CVPR 2019)
 - Supervisors: Prof. Silvio Savarese and Prof. Fei-Fei Li

Flexiv Robotics Ltd. Research, Shanghai, China

- Research Intern Jan 2018 – May 2018
 - Project: Transferable Force-Torque Dynamics Model for Peg-in-hole Task (IROS 2019)
 - Supervisors: CEO Shiquan Wang and Prof. Cewu Lu

Machine Vision and Intelligence Group at Shanghai Jiao Tong University, Shanghai, China

- Research Assistant Aug 2016 – May 2018
 - Project: Deep Reinforcement Learning with Sparse Rewards (NIPS 2017 Symposium, IROS 2019)
 - Supervisors: Prof. Cewu Lu and Dr. Shixiang Gu
 - Project: Active Vision System for Grasping in Occluded Environments
 - Supervisor: Prof. Cewu Lu

- OPEN-SOURCED PROJECTS**
- robomimic** (<https://github.com/ARISE-Initiative/robomimic>, ~150 stars, ~40 forks) Dec 2021
 - Full implementation code of the paper **robomimic** (CoRL 2021)
 - CoGAIL** (<https://github.com/j96w/cogail>) Dec 2021
 - Full implementation code of the paper **CoGAIL** (CoRL 2021)
 - DenseFusion** (<https://github.com/j96w/DenseFusion>, ~850 stars, ~200 forks) Jan 2019
 - Full implementation code of the paper **DenseFusion** (CVPR 2019)
 - 6-PACK** (<https://github.com/j96w/6-PACK>, ~250 stars) Oct 2019
 - Full implementation code of the paper **6-PACK** (ICRA 2020)

SERVICE

- Co-organizer
- Workshop on Overlooked Aspects of Imitation Learning: Systems, Data, Tasks, and Beyond at RSS 2022
- Reviewer
- IEEE Robotics and Automation Letters, RA-L (2020, 2021, 2022)
 - Conference on Robot Learning, CoRL (2022)
 - IEEE International Conference on Robotics and Automation, ICRA (2020, 2021, 2022)
 - IEEE International Conference on Intelligent Robots and Systems, IROS (2019, 2020, 2021, 2022)
 - International Conference on Learning Representations, ICLR (2022)
 - Neural Information Processing Systems, NeurIPS (2022)
 - IEEE Transactions on Pattern Analysis and Machine Intelligence, TPAMI (2022)

TEACHING EXPERIENCE

- CS231A Computer Vision, From 3D Reconstruction to Recognition
Teaching Assistant, Stanford Jan 2022 – Mar 2022
- CS348 Computer Vision
Teaching Assistant, SJTU Sep 2017 – Jan 2018
- CS358 Data Structures and Algorithm
Teaching Assistant, SJTU Sep 2017 – Jan 2018