

WANPENG ZHANG

Partner & Head of Post-Training @ [BeingBeyond](#)

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Education

Peking University. *Ph.D. in Computer Science.* Sep. 2022 – Jun. 2026
Research Interest: Foundation Models / RL / Robotics Beijing, China

Tsinghua University. *M.S. in Computer Science.* Sep. 2019 – Jun. 2022
Research Interest: Reinforcement Learning Beijing, China

Nankai University. *B.S. in Mathematics.* Sep. 2015 – Jun. 2019
Research Interest: Mathematics / Machine Learning Tianjin, China

Experience

BeingBeyond. *Partner & Head of Post-Training.* Apr. 2025 – Present
Research Interest: VLA / World Model / RL / Robotics Beijing, China

Beijing Academy of Artificial Intelligence. *Research Intern.* May. 2024 – Mar. 2025
Research Interest: VLM / RL / Robotics Beijing, China

Tencent AI Lab (Rhino-bird Program). *Research Intern.* Jun. 2020 – Jul. 2021
Research Interest: Reinforcement Learning Shenzhen, China

Representative Work

Wanpeng Zhang*, BeingBeyond Team. *Being-H0.8: A Latent Tactile World-Action Model at Scale.* (Tech Report 26.07. *Lead of Post-Training, Core Contributor.)
TLDR: *Being-H0.8 extends latent world-action modeling to tactile-aware interaction, scaling visuo-tactile pretraining with 500,000+ hours of egocentric human video.*

Wanpeng Zhang*, BeingBeyond Team. *Being-H0.7: A Latent World-Action Model from Egocentric Videos.* (NeurIPS 2026. *Lead of Post-Training, Core Contributor.)
TLDR: *Being-H0.7 is a latent world-action model that scales egocentric video pretraining into future-aware robot control.*

Wanpeng Zhang, Hao Luo, Sipeng Zheng, Yicheng Feng, Haiweng Xu, Ziheng Xi, Chaoyi Xu, Haoqi Yuan, Zongqing Lu. *Conservative Offline Robot Policy Learning via Posterior-Transition Reweighting.* (arXiv'26.03.)
TLDR: *PTR performs reward-free offline policy improvement by conservatively reweighting offline data according to whether an action leads to an identifiable downstream outcome.*

Wanpeng Zhang*, BeingBeyond Team. *Being-H0.5: Scaling Human-Centric Robot Learning for Cross-Embodiment Generalization.* (CoRL 2026. *Lead of Post-Training, Core Contributor.)
TLDR: *Being-H0.5 is a foundational VLA model that scales human-centric learning with a unified action space to enable robust cross-embodiment robot control.*

Wanpeng Zhang, Ye Wang, Hao Luo, Haoqi Yuan, Yicheng Feng, Chaoyi Xu, Sipeng Zheng, Qin Jin, Zongqing Lu. *Transport Discrepancy as a Reliability Signal for Vision-Language-Action Models.* (ECCV 2026.)
TLDR: *DiG is a plug-and-play module for flow-matching based VLAs that rebalances control between the autoregressive foundation model and the flow expert.*

Wanpeng Zhang*, BeingBeyond Team. *Being-H0: Vision-Language-Action Pretraining from Large-Scale Human Videos.* (ICML 2026. *Lead of Post-Training, Core Contributor.)
TLDR: *We introduce Being-H0, the first dexterous Vision-Language-Action model pretrained from large-scale human videos via explicit hand motion modeling.*

Wanpeng Zhang, Yicheng Feng, Hao Luo, Yijiang Li, Zihao Yue, Sipeng Zheng, Zongqing Lu. *Unified Multimodal Understanding via Byte-Pair Visual Encoding*. (ICCV 2025, **Highlight**)

TLDR: Building upon the self-supervised visual BPE Tokenizer proposed in the previous work, we further designed a complete training framework and our *Being-VL-0.5* model.

Wanpeng Zhang, Zilong Xie, Yicheng Feng, Yijiang Li, Xingrun Xing, Sipeng Zheng, Zongqing Lu. *From Pixels to Tokens: Byte-Pair Encoding on Quantized Visual Modalities*. (ICLR 2025)

TLDR: Proposed self-supervised visual BPE Tokenizer, enabling Transformers to learn and align multi-modal information more effectively, providing a new learning paradigm for Unified MLLMs.

Wanpeng Zhang, Yilin Li, Boyu Yang, Zongqing Lu. *Tackling Non-Stationarity in Reinforcement Learning via Causal-Origin Representation*. (ICML 2024)

TLDR: By adaptively learning the causal relationship joint graph in the environment and providing representations with causal relationships, RL algorithms can effectively tackle non-stationarities.

Wanpeng Zhang, Zongqing Lu. *AdaRefiner: Refining Decisions of Language Models with Adaptive Feedback*. (NAACL 2024)

TLDR: Proposed *AdaRefiner* to achieve the co-learning of LLMs and RL agents by enabling them to provide feedback to each other, optimizing both perception and decision-making capabilities.

Ziluo Ding*, **Wanpeng Zhang***, Junpeng Yue, Xiangjun Wang, Tiejun Huang, Zongqing Lu. *Entity Divider with Language Grounding in Multi-Agent Reinforcement Learning*. (ICML 2023.

*Co-first Author.)

TLDR: Proposed *EnDi* framework, achieving agent goal division and collaboration enhancement in multi-agent systems through language and entity binding.

Other Publication (Full List: [Google Scholar](#).)

- Haiweng Xu, Sipeng Zheng, Hao Luo, **Wanpeng Zhang**, Ziheng Xi, Zongqing Lu. *Unmasking the Illusion of Embodied Reasoning in Vision-Language-Action Models*. (ECCV 2026)
- Yicheng Feng, **Wanpeng Zhang**, Ye Wang, Hao Luo, Haoqi Yuan, Sipeng Zheng, Zongqing Lu. *Spatial-Aware VLA Pretraining through Visual-Physical Alignment from Human Videos*. (CVPR 2026)
- Hao Luo, Ye Wang, **Wanpeng Zhang**, Haoqi Yuan, Yicheng Feng, Haiweng Xu, Sipeng Zheng, Zongqing Lu. *Joint-Aligned Latent Action: Towards Scalable VLA Pretraining in the Wild*. (CVPR 2026)
- Chi Zhang, Penglin Cai, Ziheng Xi, Haoqi Yuan, Hao Luo, **Wanpeng Zhang**, Sipeng Zheng, Chaoyi Xu, Zongqing Lu. *Human-Centric Transferable Tactile Pre-Training for Dexterous Robotic Manipulation*. (arXiv'26.07)
- Chaoyi Xu, Yixuan Jiang, Jiahui Huan, Yuhui Fu, Haoyu Zhou, Weitian Yuan, Jiayi Yu, **Wanpeng Zhang**, Haoqi Yuan, Zongqing Lu. *RealDexUMI: A Wearable Universal Manipulation Interface for Dexterous Robot Learning*. (CoRL 2026)
- Ye Wang*, Sipeng Zheng*, Hao Luo*, **Wanpeng Zhang***, Haoqi Yuan, Chaoyi Xu, Haiweng Xu, Yicheng Feng, Mingyang Yu, Zhiyu Kang, Zongqing Lu, Qin Jin *Rethinking Visual-Language-Action Model Scaling: Alignment, Mixture, and Regularization* (arXiv'26.02. *Co-first Author.)
- Hao Luo, Zihao Yue, **Wanpeng Zhang**, Yicheng Feng, Sipeng Zheng, Deheng Ye, Zongqing Lu. *OpenMMego: Enhancing Egocentric Understanding for LMMs with Open Weights and Data*. (NeurIPS 2025)
- Yicheng Feng, Yijiang Li, **Wanpeng Zhang**, Hao Luo, Zihao Yue, Sipeng Zheng, Zongqing Lu. *VideoOrion: Tokenizing Object Dynamics in Videos*. (ICCV 2025)
- Xiaopeng Yu, **Wanpeng Zhang**, Zongqing Lu. *LLM-Based Explicit Models of Opponents for Multi-Agent Games*. (NAACL 2025)
- Xingrun Xing, Boyan Gao, David A. Clifton, Zheng Liu, Shitao Xiao, **Wanpeng Zhang**, Li Du, Zheng Zhang, Guoqi Li, Jiajun Zhang. *SpikeLLM: Scaling up Spiking Neural Network to Large Language Models via Saliency-based Spiking*. (ICLR 2025)
- Xingrun Xing, Zheng Liu, Shitao Xiao, Boyan Gao, Yiming Liang, **Wanpeng Zhang**, Haokun Lin, Guoqi Li, Jiajun Zhang. *EfficientLLM: Scalable Pruning-Aware Pretraining for Architecture-Agnostic Edge Language Models*. (arXiv'25.02)

- Xiaopeng Yu, Jiechuan Jiang, **Wanpeng Zhang**, Haobin Jiang, Zongqing Lu. *Model-Based Opponent Modeling*. (**NeurIPS 2022**)
- Xiaoyan Cao, Yao Yao, Lanqing Li, **Wanpeng Zhang**, Zhicheng An, Zhong Zhang, Li Xiao, Shihui Guo, Xiaoyu Cao, Meihong Wu, Dijun Luo. *iGrow: A Smart Agriculture Solution to Autonomous Greenhouse Control*. (**AAAI 2022**)
- Mingzhe Chen, Xi Xiao, **Wanpeng Zhang**, Xiaotian Gao. *Efficient and Stable Information Directed Exploration for Continuous Reinforcement Learning*. (**ICASSP 2022**)
- **Wanpeng Zhang**, Xiaoyan Cao, Yao Yao, Zhicheng An, Dijun Luo, Xi Xiao. *Robust Model-based Reinforcement Learning for Autonomous Greenhouse Control*. (**ACML 2021**)
- **Wanpeng Zhang**, Xi Xiao, Yao Yao, Mingzhe Chen, Dijun Luo. *MBDP: A Model-based Approach to Achieve both Robustness and Sample Efficiency via Double Dropout Planning*. (**arXiv'21.08**)
- Yao Yao, Li Xiao, Zhicheng An, **Wanpeng Zhang**, Dijun Luo. *Sample Efficient Reinforcement Learning via Model-Ensemble Exploration and Exploitation*. (**ICRA 2021**)
- Zhicheng An, Xiaoyan Cao, Yao Yao, **Wanpeng Zhang**, Lanqing Li, Yue Wang, Shihui Guo, Dijun Luo. *A Simulator-based Planning Framework for Optimizing Autonomous Greenhouse Control Strategy*. (**ICAPS 2021**)
- Bowen Zhao, Xi Xiao, **Wanpeng Zhang**, Bin Zhang, Guojun Gan, Shutao Xia. *Self-Paced Probabilistic Principal Component Analysis for Data with Outliers*. (**ICASSP 2020**)

Patent

- Zongqing Lu, **Wanpeng Zhang**. *Multimodal data processing method, device, storage medium, and electronic equipment*. (CN119226992B)
- **Wanpeng Zhang**, Dijun Luo, Xi Xiao. *Method, device and equipment for determining parameters and storage medium*. (CN112527104A)

Award

- **National Scholarship**. (2025)
- **Top 10 Students at the National Engineering Research Center of Visual Technology**. (2025)
- Merit Student of Peking University. (2025)
- **Presidential Scholarship of Peking University**. (2024)
- Award for Scientific Research of Peking University. (2024)
- Rhino-bird Talent Program of Tencent. (2021)
- Mathematical Contest in Modeling (MCM/ICM), Meritorious Winner (First Prize). (2017)
- China Undergraduate Mathematical Contest in Modeling (CUMCM), Second Prize. (2016)
- National High School Mathematics Competition, Second Prize. (2014)

Service

- **Conference Reviewer**: ICML / NeurIPS / ICLR / CVPR / ICCV / AAAI / ICRA / AISTATS / BMVC
- **Journal Reviewer**: TNNLS / TIST / RAL / TMLR
- **Teaching Assistant**: Deep Reinforcement Learning, Peking University. *Spring, 2025*.