Yuliang Xiu

TENURE-TRACK ASSISTANT PROFESSOR

Endless AI Lab, Westlake University

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Academic Experience

Westlake University — *Hangzhou, China*

TENURE-TRACK ASSISTANT PROFESSOR, PI OF ENDLESS AI LAB — *April. 2025 - Now*

Leading **Endless AI Lab** on human-centric digitization and embodied AI. **Data**: motion capture, egocentric MoCap, real-world data acquisition, and full-stack synthetic data pipelines. **Motion & bodies**: kinematic motions, motion retargeting, simulated humanoids, 3D digital humans and animals. **Applications**: fashion, sports, and personalized MLLMs.

Max Planck Institute for Intelligent Systems, Perceiving Systems / University of Tübingen — *Tübingen, Germany*

PH.D. STUDENT, MARIE SKŁODOWSKA-CURIE FELLOW (CLIPE, ESR 11) — *Nov. 2020 - Mar. 2025*

Supervised by **Prof. Michael J. Black** and **Prof. Dimitrios Tzionas**

- PuzzleAvatar : *PuzzleAvatar: Assembling 3D Avatars from Personal Albums* ***(SIGGRAPH Asia 2024)***
- TeCH : *TeCH: Text-guided Reconstruction of Lifelike Clothed Humans* ***(3DV 2024)***
- ECON 1.2k+ star : *ECON: Explicit Clothed humans Optimized via Normal integration* ***(CVPR 2023, Highlight)***
- ICON 1.7k star : *ICON: Implicit Clothed humans Obtained from Normals* ***(CVPR 2022)***

University of Southern California, Vision and Graphics Lab, Institute for Creative Technologies — *California, USA*

PH.D. STUDENT/ RESEARCH ASSISTANT — *Sep. 2019 - Oct. 2020*

Supervised by **Prof. Hao Li**

- MonoPort : *Real-Time Monocular Volumetric Human Teleportation* ***(ECCV 2020)***

Shanghai Jiao Tong University, Machine Vision and Intelligence Group — *Shanghai, China*

MASTER OF SCIENCE(M.Sc.), COMPUTER SCIENCE AND TECHNOLOGY — *Sep. 2016 - March. 2019*

Supervised by **Prof. Cewu Lu**

- AlphaPose 8.6k+ star: *Whole-Body Regional Multi-Person Pose Estimation and Tracking in Real-Time* ***(TPAMI 2022)***
- PoseFlow : *Efficient Online Pose Tracking* ***(BMVC2018)***

Shandong University — *Jinan, Shandong, China*

BACHELOR OF ENGINEERING(B.ENG.), DIGITAL MEDIA TECHNOLOGY — *Sep. 2012 - July. 2016*

Worked closely with **Prof. Lu Wang**

Publications (*/ †equal contribution, ‡corresponding author)

ViSTR-Bench: Can MLLMs Reason from Continuous Visual Cues in Dynamic Scenes? — *arXiv 2026*

HAN LI, SI LIU, ZEHAO HUANG, DONGXIN LYU, LONGFEI XU, JIAHUI FU, DAXIN TIAN, **YULIANG XIU**, NAIYAN WANG — *Project*

Towards Anatomically Plausible Human Image Generation via Synthetic Localized Preferences — *arXiv 2026*

BAO LI, **YULIANG XIU‡**, ZHEN LIU‡ — *Project*

R^3: 3D Reconstruction via Relative Regression — *NeurIPS 2026*

CONGRONG XU, HUACHEN GAO, XINGYU CHEN, **YULIANG XIU**, JUN GAO, ANPEI CHEN — *Project*

DirtyMoCap: Robust Motion Capture from Unconstrained Markers — *SIGGRAPH Asia 2026*

LONG WANG, SHUTING ZHAO, SHEN YAN, SIYUAN YU, XIAOBEN LI, ZEYU CAI, YUMENG HOU, **YULIANG XIU‡** — *Project*

GaussiAnimate: Rig Animatable Categories with Level of Dynamics — *SIGGRAPH Asia 2026*

JIAXIN WANG, DONGXIN LYU, ZEYU CAI, ZHIYANG DOU, CHENG LIN, ANPEI CHEN, **YULIANG XIU‡** — *Project*

OmniFit: Multi-modal 3D Body Fitting via Scale-agnostic Dense Landmark Prediction — *ECCV 2026*

ZEYU CAI, **YULIANG XIU**, RENKE WANG, ZHIJING SHAO, XIAOBEN LI, SIYUAN YU, …, JIAN YANG, ZHENYU ZHANG — *Project*

ETCH-X: Robustify Expressive Body Fitting to Clothed Humans with Composable Datasets — *ECCV 2026*

XIAOBEN LI, JINGYI WU, ZEYU CAI, SIYUAN YU, BOQIAN LI, **YULIANG XIU‡** — *Project*

Human3R: Everyone Everywhere All at Once — *ICLR 2026*

YUE CHEN, XINGYU CHEN, YUXUAN XUE, ANPEI CHEN, **YULIANG XIU‡**, GERARD PONS-MOLL — *Project*

UP2You: Fast Reconstruction of Yourself from Unconstrained Photo Collections — *ICLR 2026*

ZEYU CAI, ZIYANG LI, XIAOBEN LI, BOQIAN LI, ZEYU WANG, ZHENYU ZHANG‡, **YULIANG XIU‡** — *Project*

TTT3R: 3D Reconstruction as Test-Time Training (Top 5 Paper Award of China3DV 2026) — *ICLR 2026*

Xingyu Chen, Yue Chen, **Yuliang Xiu**, Andreas Geiger, Anpei Chen — *Project*

Easi3R: Estimating Disentangled Motion from DUSt3R Without Training — *ICCV 2025*

Xingyu Chen, Yue Chen, **Yuliang Xiu**, Andreas Geiger, Anpei Chen — *Project*

ETCH: Generalizing Body Fitting to Clothed Humans via Equivariant Tightness (Highlight) — *ICCV 2025*

Boqian Li, Haiwen Feng, Zeyu Cai, Michael J. Black, **Yuliang Xiu‡** — *Project*

SOAP: Style-Omniscient Animatable Portraits — *SIGGRAPH 2025*

Tingting Liao, Yujian Zheng, Adilbek Karmanov, Liwen Hu, Leyang Jin, **Yuliang Xiu**‡, Hao Li‡ — *Project*

Feat2GS: Probing Visual Foundation Models with Gaussian Splatting — *CVPR 2025*

Yue Chen, Xingyu Chen, Anpei Chen, Gerard Pons-Moll, **Yuliang Xiu‡** — *Project*

ChatGarment: Garment Estimation, Generation and Editing via Large Language Models — *CVPR 2025*

Siyuan Bian, Chenghao Xu, **Yuliang Xiu**, Artur Grigorev, Zhen Liu, Cewu Lu, Michael J. Black, Yao Feng — *Project*

PuzzleAvatar: Assembling 3D Avatars from Personal Albums (also presented at 3DV 2024 – Necker Track) — *SIGGRAPH Asia 2024 (TOG)*

Yuliang Xiu, Yufei Ye, Zhen Liu, Dimitrios Tzionas, Michael J. Black — *Project*

StableNormal: Reducing Diffusion Variance for Stable and Sharp Normal — *SIGGRAPH Asia 2024 (TOG)*

Chongjie Ye*, Lingteng Qiu*, Xiaodong Gu, …, Liefeng Bo, **Yuliang Xiu**‡, Xiaoguang Han‡ — *Project*

Parameter-Efficient Orthogonal Finetuning via Butterfly Factorization (Integrated by HuggingFace/peft as BOFT) — *ICLR 2024*

Weiyang Liu*, Zeju Qiu*, Yao Feng†, **Yuliang Xiu**†, Yuxuan Xue†, Longhui Yu†, Haiwen Feng, Zhen Liu, Juyeon Heo, Songyou Peng, Yandong Wen, Michael J. Black, Adrian Weller, Bernhard Schölkopf — *Project*

Ghost on the Shell: An Expressive Representation of General 3D Shapes (Oral, top1.2%) — *ICLR 2024*

Zhen Liu, Yao Feng†, **Yuliang Xiu**†, Weiyang Liu, Liam Paull, Michael J. Black, Bernhard Schölkopf — *Project*

TeCH: Text-guided Reconstruction of Lifelike Clothed Humans (#5 Most Influential Paper of 3DV 2024) — *3DV 2024*

Yangyi Huang*, **Yuliang Xiu***, Hongwei Yi*, Tingting Liao, Jiaxiang Tang, Deng Cai, Justus Thies — *Project*

TADA! Text to Animatable Digital Avatars (#2 Most Influential Paper of 3DV 2024) — *3DV 2024*

Tingting Liao*, Hongwei Yi*, **Yuliang Xiu**, Jiaxiang Tang, Yangyi Huang, Justus Thies, Michael J. Black — *Project*

D-IF: Uncertainty-aware Human Digitization via Implicit Distribution Field — *ICCV 2023*

Xueting Yang*, Yihao Luo*, **Yuliang Xiu**, Wei Wang, Hao Xu, Zhaoxin Fan (* equal contribution) — *Project*

ECON: Explicit Clothed humans Optimized via Normal integration (1.2k+ stars, top2.5% Highlight@CVPR. Outstanding Poster@China3DV 2023 (4/80)) — *CVPR 2023*

Yuliang Xiu, Jinlong Yang, Xu Cao, Dimitrios Tzionas, Michael J. Black — *Project*

High-Fidelity Clothed Avatar Reconstruction from a Single Image — *CVPR 2023*

Tingting Liao, Xiaomei Zhang, **Yuliang Xiu**, Hongwei Yi, …, Xiangyu Zhu, Zhen Lei — *Project*

AlphaPose: Whole-Body Regional Multi-Person Pose Estimation and Tracking in Real-Time (8.6k stars, Pose Flow is integrated as pose tracker) — *TPAMI 2022*

Hao-shu Fang*, Jiefeng Li*, Hongyang Tang, Chao Xu, Haoyi Zhu, **Yuliang Xiu**, Yong-lu Li, Cewu Lu — *Project*

DART: Articulated Hand Model with Diverse Accessories and Rich Textures — *NeurIPS 2022*

Daiheng Gao*, **Yuliang Xiu***, Kailin Li*, Lixin Yang*, …, Cewu Lu, Ping Tan (* equal contribution) — *Project*

ICON: Implicit Clothed humans Obtained from Normals (1.7k+ stars, NYTimes coverage, used in World Cup'22, Super Bowl'23) — *CVPR 2022*

Yuliang Xiu, Jinlong Yang, Dimitrios Tzionas, Michael J. Black — *Project*

Monocular Real-Time Volumetric Performance Capture — *ECCV 2020*

Ruilong Li*, **Yuliang Xiu***, Shunsuke Saito, Zeng Huang, Kyle Olszewski, Hao Li (* equal contribution) — *Project*

Volumetric Human Teleportation (SIGGRAPH Best in Show Award) — *SIGGRAPH Real-Time Live 2020*

Ruilong Li, Kyle Olszewski, **Yuliang Xiu**, Shunsuke Saito, Zeng Huang, Hao Li — *Demo*

Pose Flow: Efficient Online Pose Tracking — *BMVC 2018*

Yuliang Xiu, Jiefeng Li, Haoyu Wang, Yinghong Fang, Cewu Lu — *Paper*

PoseHD: Boosting Human Detectors using Human Pose Information — *AAAI 2018*

Zhijian Liu, Bowen Pan, **Yuliang Xiu**, and Cewu Lu — *Paper*

Industrial Experience

Reality Labs Research @ Meta — *Pittsburgh, Pennsylvania, USA*

Research Intern, advised by **Dr. Shunsuke Saito** — *July. 2024 - Dec. 2024*

Codec Avatar 2.0

Ubisoft La Forge — *Bordeaux, France*

Research Intern — *April. 2022 - July. 2022*

Character-agnostic contact-aware motion retargeting

Y-tech Graphics AI Team @ Kwai — *Palo Alto, California, USA*

Summer Research Intern, advised by **Dr. Chongyang Ma** — *May. 2020 - August. 2020*

Neural Implicit Articulated Human Modeling

LightChaser Animation Studio — *Beijing, China*

Summer Research Intern, advised by **Dr. Xinxin Zhang** — *June. 2019 - July. 2019*

Decompose sparse and localized facial blendshapes from an animated mesh sequence

Honors & Awards

Awards

Aug 2026	**NSFC Young Scientists Fund (Category C)** Lightweight Custom Tailoring and Virtual Try-On	*China*
Jun 2026	**Zhejiang Provincial Talent Program – Young Talents**	*Hangzhou, China*
May 2026	**Huawei AI Young Scholars Fund**	*China*
Apr 2026	**CSIG Distinguished Young Scholar, China3DV 2026 Top 5 Paper** TTT3R	*China*
Jul 2025	**ICCV Highlight (top 3%)** ETCH	
Jun 2025	**Most Influential Papers of 3DV 2024** TADA (#2) and TeCH (#5)	
Apr 2025	**CSIG Rising Star Award**	*China*
Apr 2023	**China3DV Outstanding Poster (4/80)** ECON	*China*
Mar 2023	**CVPR Highlight (top 3%)** ECON	
Dec 2020	**China Excellent Open-Source Project Award** AlphaPose	
Aug 2020	**Best in Show Award** SIGGRAPH Real-Time Live: MonoPort	

Scholarships

Sep 2020	**Marie Skłodowska-Curie Fellow (MSCA-ITN, CLIPE ESR 11)** (2020-2023)	*Tübingen, Germany*
Jan 2019	**Annenberg Fellowship Viterbi School of Engineering at USC** (2019-2022)	*Los Angeles, USA*
Oct 2017	**Excellent Graduate Student Scholarship** top 10% in Department of Computer Science	*Shanghai, China*
Aug 2015	**Chinese National Scholarship** highest honor for undergraduates, top 2% nationwide	*Jinan, China*
Jun 2015	**Baoquan Chen Scholarship (Dean's List Award)** top 5 of all grades in CS Department	*Jinan, China*
2013-2015	**First Prize Scholarship** top 6% in China	*Jinan, China*

Academic Services

CG Reviewers	SIGGRAPH, SIGGRAPH Asia, Eurographics
CV Reviewers	CVPR, ECCV, ICCV, 3DV, ACM MM
AI Reviewers	NeurIPS, Neurocomputing
Journal Reviewers	T-PAMI, IJCV, TIP, TVCG, TOG, Computers & Graphics, Science Advances
Area Chair	ICLR (2026, 2027), CVPR (2026, 2027), ICCV (2025), 3DV (2025), WACV (2025)
Senior Program Committee	AAAI (2027)
Publicity Chair	3DV (2025)
Workshop Organizer	Foundation Models for 3D Humans (ECCV'24), Expressive and Intelligent Virtual Humans (CAD/CG'26)

Mentoring

Siyuan Bian (2024-25)	Master at SJTU **ChatGarment (CVPR'25)** → **Ph.D. at UMich (Jun Gao)**
Boqian Li (2024-25)	Undergrad at HUST **ETCH (ICCV'25)** → **Ph.D. at USC (Yue Wang)**
Yangyi Huang (2023-24)	Master at ZJU **TeCH (3DV'24)** → **Ph.D. at TUM (Angela Dai)**
Xueting Yang (2023-24)	Undergrad at CUC **D-IF (ICCV'23)** → **Ph.D. at HKU (Kenneth K.Y. Wong)**
Tingting Liao (2022-24)	Master at CAS **CAR (CVPR'23)**, **TADA (3DV'24)** → **Ph.D. at MBZUAI (Hao Li)**
Daiheng Gao (2022-23)	Senior engineer at Alibaba XR Lab, **DART (NeurIPS'22)** → **CEO & Co-founder of DINQ.me**

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