

# Yuliang Xiu

ASSISTANT PROFESSOR

Endless Lab, Westlake University

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## Positions

Endless Lab, Westlake University

TENURE-TRACK ASSISTANT PROFESSOR

Hangzhou, China

April. 2025 - Now

## Education

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

Tübingen, Germany

PH.D. STUDENT, MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOW

Nov. 2020 - Mar. 2025

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

🔗 **PuzzleAvatar 300+ star** : PuzzleAvatar: Assembly of Avatar from Unconstrained Photo Collections (**SIGGRAPH Asia 2024**)

🔗 **TeCH 400+ star** : TeCH: Text-guided Reconstruction of Lifelike Clothed Humans (**3DV 2024**)

🔗 **ECON 1.1k+ star** : ECON: Explicit Clothed humans Optimized via Normal integration (**CVPR 2023, Highlight**)

🔗 **ICON 1.6k star** : ICON: Implicit Clothed humans Obtained from Normals (**CVPR 2022**)

University of Southern California, Institute for Creative Technology

California, USA

PH.D. STUDENT/ RESEARCH ASSISTANT

Sep. 2019 - Oct. 2020

Supervised by Prof. Hao Li

🔗 **MonoPort 500+ star** : 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 8.4k+ star** : Whole-Body Regional Multi-Person Pose Estimation and Tracking in Real-Time (**TPAMI 2023**)

🔗 **PoseFlow 400+ star** : Efficient Online Pose Tracking (**BMVC2018**)

Shandong University

Jinan, Shandong, China

BACHELOR OF ENGINEERING(B.ENG.), DIGITAL MEDIA TECHNOLOGY

Sep. 2012 - July. 2016

Cumulative GPA: 3.8/4.0 | Major GPA: 3.94/4.0 | **Ranking 1<sup>st</sup>/53**

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

**Human3R: Everyone Everywhere All at Once**

arXiv 2025

YUE CHEN, XINGYU CHEN, YUXUAN XUE, ANPEI CHEN, **YULIANG XIU**<sup>‡</sup>, GERARD PONS-MOLL

📄 [Project](#)

**UP2You: Fast Reconstruction of Yourself from Unconstrained Photo Collections**

arXiv 2025

ZEYU CAI, ZIYANG LI, XIAOBEN LI, BOQIAN LI, ZEYU WANG, ZHENYU ZHANG<sup>‡</sup>, **YULIANG XIU**<sup>‡</sup>

📄 [Project](#)

**TTT3R: 3D Reconstruction as Test-Time Training**

arXiv 2025

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**<sup>‡</sup>

📄 [Project](#)

**SOAP: Style-Omniscient Animatable Portraits**

SIGGRAPH 2025

TINGTING LIAO, YUJIAN ZHENG, ADILBEK KARMANOV, LIWEN HU, LEYANG JIN, **YULIANG XIU**<sup>‡</sup>, HAO LI<sup>‡</sup>

📄 [Project](#)

**Feat2GS: Probing Visual Foundation Models with Gaussian Splatting**

CVPR 2025

YUE CHEN, XINGYU CHEN, ANPEI CHEN, GERARD PONS-MOLL, **YULIANG XIU**<sup>‡</sup>

📄 [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: Assembly of Avatar from Unconstrained Photo Collections**

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

CHONGJIE YE\*, LINGTENG QIU\*, XIAODONG GU, ..., LIEFENG BO, [YULIANG XIU](#)‡, XIAOGUANG HAN‡

SIGGRAPH Asia 2024 (TOG)

[Project](#)

## Parameter-Efficient Orthogonal Finetuning via Butterfly Factorization (Integrated by HuggingFace/peft as BOFT)

WEIYANG LIU\*, ZEJU QIU\*, [YULIANG XIU](#)†, YAO FENG†, YUXUAN XUE†, LONGHUI YU†, HAIWEN FENG, ZHEN LIU, JUYEON HEO, SONGYOU PENG, YANDONG WEN, MICHAEL J. BLACK, ADRIAN WELLER, BERNHARD SCHÖLKOPF

ICLR 2024

[Project](#)

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

ZHEN LIU, [YULIANG XIU](#)\*, YAO FENG\*, WEIYANG LIU, LIAM PAULL, MICHAEL J. BLACK, BERNHARD SCHÖLKOPF

ICLR 2024

[Project](#)

## TeCH: Text-guided Reconstruction of Lifelike Clothed Humans

YANGYI HUANG\*, [YULIANG XIU](#)\*, HONGWEI YI\*, TINGTING LIAO, JIAXIANG TANG, DENG CAI, JUSTUS THIES

3DV 2024

[Project](#)

## TADA! Text to Animatable Digital Avatars

TINGTING LIAO\*, HONGWEI YI\*, [YULIANG XIU](#), JIAXIANG TANG, YANGYI HUANG, JUSTUS THIES, MICHAEL J. BLACK

3DV 2024

[Project](#)

## D-IF: Uncertainty-aware Human Digitization via Implicit Distribution Field

XUETING YANG\*, YIHAO LUO\*, [YULIANG XIU](#), WEI WANG, HAO XU, ZHAOXIN FAN (\* EQUAL CONTRIBUTION)

ICCV 2023

[Project](#)

## ECON: Explicit Clothed humans Obtained from Normals

(1k+ stars, top2.5% Highlight@CVPR. Outstanding Poster@China3DV)

[YULIANG XIU](#), JINLONG YANG, XU CAO, DIMITRIOS TZIONAS, MICHAEL J. BLACK

CVPR 2023

[Project](#)

## High-Fidelity Clothed Avatar Reconstruction from a Single Image

TINGTING LIAO, XIAOMEI ZHANG, [YULIANG XIU](#), HONGWEI YI, ..., ZHEN LEI

CVPR 2023

[Project](#)

## AlphaPose: Whole-Body Regional Multi-Person Pose Estimation and Tracking in Real-Time (7.6k stars, Pose Flow is integrated as pose tracker)

HAO-SHU FANG\*, JIEFENG LI\*, HONGYANG TANG, CHAO XU, HAOYI ZHU, [YULIANG XIU](#), YONG-LU LI, CEWU LU

TPAMI 2023

[Project](#)

## DART: Articulated Hand Model with Diverse Accessories and Rich Textures

DAIHENG GAO\*, [YULIANG XIU](#)\*, KAILIN LI\*, LIXIN YANG\*, ..., CEWU LU, PING TAN (\* EQUAL CONTRIBUTION)

NeurIPS 2022

[Project](#)

## ICON: Implicit Clothed humans Obtained from Normals

(1.5k+ stars, NYTimes coverage, used in World Cup'22, Super Bowl'23)

[YULIANG XIU](#), JINLONG YANG, DIMITRIOS TZIONAS, MICHAEL J. BLACK

CVPR 2022

[Project](#)

## Monocular Real-Time Volumetric Performance Capture

RUILONG LI\*, [YULIANG XIU](#)\*, SHUNSUKE SAITO, ZENG HUANG, KYLE OLSZEWSKI, HAO LI (\* EQUAL CONTRIBUTION)

ECCV 2020

[Project](#)

## Volumetric Human Teleportation (SIGGRAPH Best in Show Award)

RUILONG LI, KYLE OLSZEWSKI, [YULIANG XIU](#), SHUNSUKE SAITO, ZENG HUANG, HAO LI

SIGGRAPH Real-Time Live 2020

[Demo](#)

## Pose Flow: Efficient Online Pose Tracking

[YULIANG XIU](#), JIEFENG LI, HAOYU WANG, YINGHONG FANG, CEWU LU

BMVC 2018

[Paper](#)

## PoseHD: Boosting Human Detectors using Human Pose Information

ZHIJIAN LIU, BOWEN PAN, [YULIANG XIU](#), AND CEWU LU

AAAI 2018

[Paper](#)

## Internship Experience

### Reality Labs Research @ Meta

RESEARCH INTERN, ADVISED BY DR. SHUNSUKE SAITO  
Codec Avatar 2.0

Pittsburgh, Pennsylvania, USA

incoming July. 2024 - Dec. 2024

### Ubisoft La Forge

RESEARCH INTERN  
Character-agnostic contact-aware motion retargeting

Bordeaux, France

April. 2022 - July. 2022

### Y-tech Graphics AI Team @ Kwai

SUMMER RESEARCH INTERN, ADVISED BY DR. CHONGYANG MA  
Neural Implicit Articulated Human Modeling

Palo Alto, California, USA

May. 2020 - August. 2020

### Light Chaser Animation Studios

SUMMER RESEARCH INTERN, ADVISED BY DR. XINXIN ZHANG  
Decompose sparse and localized facial blendshapes from an animated mesh sequence

Beijing, China

June. 2019 - July. 2019

# Honors & Awards

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## SCHOLARSHIPS

Sep 2020	<b>Ph.D. Scholarship of Marie Skłodowska-Curie Innovative Training Networks</b> (2020-2023)	<i>Tübingen, Germany</i>
Jan 2019	<b>Annenberg Fellowship Viterbi School of Engineering at USC</b> (2019-2022)	<i>Los Angeles, USA</i>
Oct 2017	<b>Excellent Graduate Student Scholarship</b> top 10% in Department of Computer Science	<i>Shanghai, China</i>
Aug 2015	<b>Chinese National Scholarship</b> highest honor for undergraduates, top 2% nationwide	<i>Jinan, China</i>
Jun 2015	<b>Baoquan Chen Scholarship(Dean's List Award)</b> top 5 of all grades in Department of Computer Science	<i>Jinan, China</i>
2013-2015	<b>First Prize Scholarship</b> top 6% in China, <b>three-year continuous</b>	<i>Jinan, China</i>

## Academic Services

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<b>Computer Graphics (CG) Reviewers</b>	SIGGRAPH, SIGGRAPH Asia, Eurographics, TVCG, TOG, Computers & Graphics
<b>Computer Vision (CV) Reviewers</b>	CVPR, ECCV, ICCV, NeurIPS, 3DV, T-PAMI, TIP, ACM MM, Neurocomputing
<b>Area Chair</b>	3DV (2024), ICCV (2025), WACV(2026), CVPR(2026), ICLR(2026)
<b>Publicity Chair</b>	3DV (2024)
<b>Workshop Organizer</b>	<a href="#">Foundation Models for 3D Humans (ECCV'24)</a>

## Mentoring

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<b>Siyuan Bian (2024-Now)</b>	Master at Shanghai Jiao Tong University <a href="#">ChatGarment (CVPR'25)</a> → <b>Ph.D. at Umich (Jun Gao)</b>
<b>Yangyi Huang (2023-Now)</b>	Master at Zhejiang University <a href="#">TeCH (3DV'24)</a> → <b>Ph.D. at TUM (Angela Dai)</b>
<b>Tingting Liao (2022-Now)</b>	Master at Chinese Academy of Sciences <a href="#">CAR (CVPR'23)</a> , <a href="#">TADA (3DV'24)</a> → <b>Ph.D. at MBZUAI (Hao Li)</b>
<b>Daiheng Gao (2022-Now)</b>	Senior algorithm engineer in XR Lab at Alibaba, <a href="#">DART (NeurIPS'22)</a>
<b>Xueting Yang (2023-Now)</b>	Undergrad at Communication University of China <a href="#">D-IF (ICCV'23)</a> → <b>Ph.D. at HKU (Kenneth K.Y. Wong)</b>