XIAOHAN ZHANG

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EDUCATION

Max-Planck Institute for Informatics and University of Tübingen *Mar 2020 – Present*
Ph.D. in Machine Learning and Computer Vision
Thesis: Capture and Synthesis of 3D Human-object Interaction
Advisor: Prof. Gerard Pons-Moll

Imperial College London *Oct 2014 – Sep 2018*
Master of Science in Statistics
Thesis: Latent Dirichlet Allocation for Semantic Analysis of News Feed
Advisor: Dr. Seppo Virtanen
Grade: Distinction

Bachelor of Science in Mathematics
Research Project: Gaussian Process Regression for Financial Time Series
Advisor: Dr. Ben Calderhead
Grade: First Class Honours

PUBLICATIONS AND PREPRINTS

FORCE: Synthesis of Human-object Interaction via Intuitive Physics
International Conference on 3D Vision (3DV) 2025
Xiaohan Zhang, Bharat Lal Bhatnagar, Ilya Petrov, Vladimir Guzov, Helisa Dhamo, Eduardo Pérez-Pellitero, Gerard Pons-Moll

COUCH: Towards Controllable Human-chair Interactions
European Conference on Computer Vision (ECCV) 2022
Xiaohan Zhang, Bharat Lal Bhatnagar, Sebastian Starke, Vladimir Guzov, Gerard Pons-Moll

INVITED TALKS

Realistic and Controllable Synthesis of Human-object Interaction *Huawei Noah's Ark, London*

ACADEMIC RESPONSIBILITIES

Supervisor, University of Tübingen *Oct 2021 – Present*
- Research Seminar: Human Motion Synthesis (Winter Semester 2022, 2023)
- Virtual Humans (Winter Semester 2023)
- Mathematics for Machine Learning (Winter Semester 2021)

Conference Reviewer
CVPR (2022, 2023, 2024), ECCV (2022), ICCV (2021, 2023), 3DV (2024)

PROFESSIONAL EXPERIENCE

The Creator Fund Germany
Venture Fellow *Oct 2024 – Present*
- Investing in deeptech pre-seed and seed round start-ups.

Max-Planck Institute for Informatics Saarbrücken, Germany
Research Intern *Sep 2019 – Feb 2020*
- Constructed a data-driven character capable of locomotion on uneven terrains.
- Reproduced the Phase-functioned Neural Network for Character Animation in the SMPL format.

SenseTime Shenzhen, China
Research Intern *Feb 2019 – August 2019*
- Accelerated the inference speed of the neural network deployed by products with 8-bit quantisation
- Developed a novel neural architecture search algorithm using multi-episodic evolutionary algorithm search algorithm for image classification on mobile phones

SCHOLARSHIPS AND AWARDS

Outstanding Reviewer Award: CVPR 2024

The Cyber Valley AI Incubator Competition: award winning team *2023*

TECHNICAL STRENGTHS

Programming Languages: Python, C#, MATLAB

Software and Frameworks: PyTorch, Unity3D, Blender