

Yang Zhou

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EDUCATION BACKGROUND

University of Massachusetts Amherst Ph.D. in Computer Science <i>Thesis: Audio-driven Character Animation</i> Advisor: Evangelos Kalogerakis	Sept. 2016-May 2021
Georgia Institute of Technology M.S. in Electrical & Computer Engineering	May 2013-May 2016
Shanghai Jiao Tong University B.S. and M.S. in Electronic Engineering	Sept. 2009-Mar. 2016

EXPERIENCE

Adobe Research, San Jose, CA Research Scientist <ul style="list-style-type: none">Character animationDigital human capture and synthesis3D-aware object and scene synthesis	May 2021-present
UMass Amherst, Amherst, MA Research Assistant <i>Advisor: Evangelos Kalogerakis</i> <ul style="list-style-type: none">Audio-driven character speech animation3D scene understandingCharacter rigging and skinning	Sept. 2016-May. 2021
Adobe Research, San Jose, CA Research Intern <i>Advisors: Jimei Yang, Dingzeyu Li, Jun Saito, Deepali Aneja</i> <ul style="list-style-type: none">Human speech video reenactment	Jun 2020-Sept. 2020
Adobe Research, Seattle, WA Research Intern <i>Advisors: Dingzeyu Li, Eli Shechtman, Jose Echevarria</i> <ul style="list-style-type: none">Cartoon character audio-driven speech animation	Jun 2019-Sept. 2019
Wayfair, Boston, MA Research Intern. <i>Advisors: Mike Festa, Rebecca Perry, Tim Zhang</i> <ul style="list-style-type: none">3D Scene Graph and Synthesis based on deep learning	June 2018-Dec. 2018
Shanghai Jiao Tong University, Shanghai, China Research Assistant <i>Advisor: Weiyao Lin</i> <ul style="list-style-type: none">Motion Trajectory Representation and Analysis	Sept. 2013-Mar. 2016

PUBLICATIONS

- Zhan Xu, **Yang Zhou**, Li Yi, Evangelos Kalogerakis, “Morig: Motion-aware rigging of character meshes from point clouds”, *ACM Transactions on Graphics (TOG)*, 2022.
- Zhouyingcheng Liao, Jimei Yang, Jun Saito, Gerard Pons-Moll, **Yang Zhou**, “Skeleton-free pose transfer for stylized 3D

characters”, In *Proc. of the European Conference on Computer Vision (ECCV)*, 2022.

- Chun-Han Yao, Jimei Yang, Duygu Ceylan, Yi Zhou, **Yang Zhou**, Ming-Hsuan Yang, “Learning Visibility for Robust Dense Human Body Estimation”, In *Proc. of the European Conference on Computer Vision (ECCV)*, 2022.
- Zhan Xu, Matthew Fisher, **Yang Zhou**, Deepali Aneja, Rushikesh Dudhat, Li Yi, Evangelos Kalogerakis, “APES: Articulated Part Extraction from Sprite Sheets”, In *Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
- **Yang Zhou**, Jimei Yang, Dingzeyu Li, Jun Saito, Deepali Aneja, Evangelos Kalogerakis, “Audio-Driven Neural Gesture Reenactment With Video Motion Graphs”, In *Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
- **Yang Zhou**, Xintong Han, Eli Shechtman, Jose Echevarria, Evangelos Kalogerakis, Dingzeyu Li, “Makelttalk: speaker-aware talking-head animation”, *ACM Transactions on Graphics (TOG)*, 2020.
- Zhan Xu, **Yang Zhou**, Evangelos Kalogerakis, Chris Landreth, Karan Singh, “RigNet: Neural Rigging for Articulated Characters”, *ACM Transactions on Graphics (TOG)*, 2020.
- Zhan Xu, **Yang Zhou**, Evangelos Kalogerakis, Karan Singh, “Predicting animation skeletons for 3d articulated models via volumetric nets”, In *Proc. of the International Conference on 3D Vision (3DV)*, 2019.
- **Yang Zhou**, Zachary While, Evangelos Kalogerakis, “SceneGraphNet: Neural Message Passing for 3D Indoor Scene Augmentation”, In *Proc. of the IEEE International Conference on Computer Vision (ICCV)*, 2019.
- **Yang Zhou**, Zhan Xu, Chris Landreth, Subhransu Maji, Evangelos Kalogerakis, Karan Singh, “VisemeNet: Audio-Driven Animator-Centric Speech Animation”, *ACM Transactions on Graphics (TOG)*, 2018.
- Li Yi, Lin Shao, Manolis Savva, Haibin Huang, **Yang Zhou**, et al., “Large-Scale 3D Shape Reconstruction and Segmentation from ShapeNet Core55”, In *Proc. of the IEEE International Conference on Computer Vision Workshop (ICCVW) on Learning to see from 3D data*, 2017.
- Weiyao Lin, **Yang Zhou**, Hongteng Xu, Junchi Yan, Mingliang Xu, Jianxin Wu, Zicheng Liu, “A Tube-and-Droplet-based Approach for Representing and Analyzing Motion Trajectories”, *IEEE Transaction Pattern Analysis and Machine Intelligence (TPAMI)*, 2017.
- Hongteng Xu, **Yang Zhou**, Weiyao Lin, Hongyuan Zha, “Unsupervised Trajectory Clustering via Adaptive Multi-Kernel-based Shrinkage” In *Proc. of International Conference Computer Vision (ICCV)*, 2015.
- **Yang Zhou**, Weiyao Lin, Hang Su, Jianxin Wu, Jinjun Wang, Yu Zhou, “Representing and recognizing motion trajectories: a tube and droplet approach” In *Proc. of ACM International Conference on Multimedia (MM)*, 2014.

PATENTS

- Re-timing a video sequence to an audio sequence based on motion and audio beat detection, US20220261573A1.
- Style-aware audio-driven talking head animation from a single image, US11417041B2

PROFESSIONAL SERVICE

- Reviewer for: TPAMI, TMM, CVPR, ECCV, ICCV, ACCV, AAAI, 3DV, SIGGRAPH, SIGGRAPH Asia, EG, TVCG, C&G

HONORS AND AWARDS

- 2016 Edward Riseman and Allen Hanson **Scholarship**
- 2014 Wen-Yuan Pan **Scholarship**
- 2013 Outstanding Graduates of Shanghai (top 5%)
- 2011 Samsung **Scholarship**

- 2012 Mathematics Contest in Modeling (MCM), **Meritorious Winner**
- 2010 National Mathematics Invitational Contest in Modeling, **First Prize**
- 2009 National Physics Contest for College Students, **First Prize**
- 2008 National Physics Olympic Competition, **First Prize (top 0.1%)**

SKILLS

Proficiency in programming languages: Python, C/C++, MATLAB, Maya, Maxscript

Extensive experience in deep learning packages: Pytorch, Tensorflow