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Research Interests

Sketch-based Modeling, 3D/4D Reconstruction, 3D Shape/Scene Analysis, Image Processing

Education

- 2014–2021 **Ph.D. in Computational Mathematics**, *University of Science and Technology of China*, China. Supervisor: Prof. Ligang Liu, Advisors: Prof. Xiaoguang Han, Prof. Hongbo Fu.
- 2010–2014 **B.Sc. in Applied Mathematics**, *Nanjing University of Science and Technology*, China. Advisor: Prof. Ligang Liu.

Research Experience

- 2024.02–Present **Associate Researcher**, *School of Mathematics and Statistics*, Nanjing University of Science and Technology.
- 2023.03–2024.02 **Postdoctoral Fellow**, *Department of Computer Science*, City University of Hong Kong, **Supervisor: Prof. Junhui Hou**.
- 2021.06–2023.03 **Research Fellow**, *School of Science and Engineering*, The Chinese University of Hong Kong, Shenzhen, **Supervisor: Prof. Xiaoguang Han**.
- 2018.03–2021.06 **Research Assistant**, *Shenzhen Research Institute of Big Data*, The Chinese University of Hong Kong, Shenzhen, **Supervisor: Prof. Xiaoguang Han**.
- 2017.02–2018.02 **Research Assistant**, *School of Creative Media*, City University of Hong Kong, **Supervisor: Prof. Hongbo Fu**.

Publications (* equal contribution, # corresponding author)

- CVM 2024 Zhangyang Xiong, **Dong Du**, Yushuang Wu, Jingqi Dong, Di Kang, Linchao Bao, Xiaoguang Han#. **PIFu for the Real World: A Self-supervised Framework to Reconstruct Dressed Human from Single-view Images**. *Computational Visual Media*, 2024 (CCF C).
- TVCG 2023 Zhongjin Luo, **Dong Du**, Heming Zhu, Yizhou Yu, Hongbo Fu, Xiaoguang Han#. **Sketch-MetaFace: A Learning-based Sketching Interface for High-fidelity 3D Character Face Modeling**. *IEEE Transactions on Visualization and Computer Graphics*, 2023 (CCF A).
- SGP 2023 Xiangyu Zhu*, **Dong Du***, Haibin Huang, Chongyang Ma, Xiaoguang Han#. **3D Keypoint Estimation Using Implicit Representation Learning**. *The Symposium on Geometry Processing*, 2023 (CCF B).
- CVPR 2023 Xiangyu Zhu*, **Dong Du***, Weikai Chen, Zhiyou Zhao, Yinyu Nie, Xiaoguang Han#. **NerVE: Neural Volumetric Edges for Parametric Curve Extraction from Point Cloud**. *IEEE Conference on Computer Vision and Pattern Recognition*, 2023 (CCF A).
- UIST 2021 Zhongjin Luo, Jie Zhou, Heming Zhu, **Dong Du**, Xiaoguang Han#, Hongbo Fu. **SimpModeling: Sketching Implicit Field to Guide Mesh Modeling for 3D Animalmorphic Head Design**. *The 34th Annual ACM Symposium on User Interface Software and Technology*, 2021 (CCF A).

- TVCG 2020 **Dong Du**, Xiaoguang Han[#], Hongbo Fu, Feiyang Wu, Yizhou Yu, Shuguang Cui, and Ligang Liu. **SAniHead: Sketching Animal-like 3D Character Heads Using a View-surface Collaborative Mesh Generative Network**. IEEE Transactions on Visualization and Computer Graphics, 2020 (CCF A).
- CGF 2020 **Dong Du**, Heming Zhu, Yinyu Nie, Xiaoguang Han[#], Shuguang Cui, Yizhou Yu, Ligang Liu. **Learning Part Generation and Assembly for Sketching Man-made Objects**. Computer Graphics Forum, 2020 (CCF B).
- 3DV 2020 **Dong Du**, Zhiyi Zhang, Xiaoguang Han[#], Shuguang Cui, Ligang Liu. **VIPNet: A Fast and Accurate Single-View Volumetric Reconstruction by Learning Sparse Implicit Point Guidance**. International Conference on 3D Vision, 2020 (CCF C).
- ECCV 2020 Heming Zhu, Yu Cao, Hang Jin, Weikai Chen, **Dong Du**, Zhangye Wang, Shuguang Cui, Xiaoguang Han[#]. **Deep Fashion3D: A Dataset and Benchmark for 3D Garment Reconstruction from Single Images**. European Conference on Computer Vision, 2020 (Oral, CCF B).
- CVPR 2020 Yiqun Lin, Zizheng Yan, Haibin Huang, **Dong Du**, Ligang Liu, Shuguang Cui, Xiaoguang Han[#]. **FPConv: Learning Local Flattening for Point Convolution**. IEEE Conference on Computer Vision and Pattern Recognition, 2020 (CCF A).
- CVPR 2019 Xiaoguang Han[#], Zhaoxuan Zhang, **Dong Du**, Mingdai Yang, Jingming Yu, Pan Pan, Xin Yang, Ligang Liu, Zixiang Xiong, Shuguang Cui. **Deep Reinforcement Learning of Volume-Guided Progressive View Inpainting for 3D Point Scene Completion from a Single Depth Image**. IEEE Conference on Computer Vision and Pattern Recognition, 2019 (Oral, CCF A).
- TVCG 2018 Xiaoguang Han[#], Kangcheng Hou, **Dong Du**, Yuda Qiu, Shuguang Cui, Kun Zhou, Yizhou Yu. **CaricatureShop: Personalized and Photorealistic Caricature Sketching**. IEEE Transactions on Visualization and Computer Graphics, 2018 (CCF A).
- i3D 2018 Wanchao Su, **Dong Du**, Xin Yang, Shizhe Zhou, Hongbo Fu[#]. **Interactive Sketch-Based Normal Map Generation with Deep Neural Networks**. ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games, 2018 (CCF B).
- JUSTC 2017 **Dong Du**, Shiwei Wang, Ligang Liu[#]. **The Research and Development of Dynamic Creatures Design Based on Mechanics**. Journal of University of Science and Technology of China, 2017.

Academic Services

- 2020-Present Journal Reviewer of TIP, TVCG, TCSVT, TMM, C&G, TVCJ.
Conference Reviewer of SIGGRAPH Asia, CVPR, ECCV, IJCAI, BMVC, VR, 3DV.

References

- Ligang Liu** Full Professor at University of Science and Technology of China, my Ph.D. supervisor. Email: lgliu@ustc.edu.cn
- Hongbo Fu** Full Professor at City University of Hong Kong, my academic advisor in 2017-2018. Email: hongbofu@cityu.edu.hk
- Xiaoguang Han** Assistant Professor at the Chinese University of Hong Kong, Shenzhen, my academic advisor in 2018-2023. Email: hanxiaoguang@cuhk.edu.cn
- Junhui Hou** Associate Professor at City University of Hong Kong, my postdoc advisor in 2023-2024. Email: jh.hou@cityu.edu.hk