

Chuanxia Zheng

Curriculum Vitae

Institute of Media Innovation
Nanyang Technological University

✉ chuanxia001@e.ntu.edu.sg

📞 [lyndonzheng](tel:lyndonzheng)

Homepage: <http://www.chuanxiaz.com/>

Education

- 2017–2021 **Nanyang Technological University.**
Ph.D. in Computer Science, SCSE
Advisor: Tat-Jen Cham and Jianfei Cai
- 2014–2017 **Beihang University.**
MA.E. in Automation Science
Thesis: *Context-based Indoor Scene Understanding for Mobile Robot*
Advisor: Jianhua Wang and Weihai Chen
- 2010–2014 **Beijing Jiaotong University.**
B.E. in Electronic and Information Engineering
Ranked 2nd out of 100, Class of 2014

Employment

- 2021 **Monash University.**
Research assistant at Monash Research Institute of Science and Technology
Work on image generation and 3D generation
- 2017 **Huawei Research.**
Research assistant at Noah's Ark Lab
Work on face recognition and generation
- 2016 **Tencent Research.**
Research Intern at Fundamental Research Center of Tencent
Work on news recommendation

Publications

- [1] **Chuanxia Zheng**, Duy-Son Dao, Guoxian Song, Tat-Jen Cham, and Jianfei Cai. Visiting the invisible: layer-by-layer completed scene decomposition. *International Journal of Computer Vision (IJCV)*, 2021.
- [2] Yujun Cai, Yiwei Wang, Yiheng Zhu, Tat-Jen Cham, Jianfei Cai, Junsong Yuan, Jun Liu, **Chuanxia Zheng**, Sijie Yan, Henghui Ding, Xiaohui Shen, Ding Liu, and Nadia Magnenat Thalmann. A unified 3d human motion synthesis model via conditional variational auto-encoder. In *Proceedings of the International Conference on Computer Vision (ICCV)*, 2021.
- [3] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Pluralistic free-form image completion. *International Journal of Computer Vision (IJCV)*, 2021.
- [4] Guoxian Song, Linjie Luo, Jing Liu, Wan-Chun Ma, Chunpong Lai, **Chuanxia Zheng**, and Tat-Jen Cham. Agilegan: stylizing portraits by inversion-consistent transfer learning. *ACM Transactions on Graphics (TOG)*, 40(4):1–13, 2021.
- [5] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. The spatially-correlative loss for various image translation tasks. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 16407–16417, 2021.
- [6] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Pluralistic image completion. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 1438–1447, 2019.
- [7] Tianyi Zhang, Jingyi Yang, **Chuanxia Zheng**, Guosheng Lin, Jianfei Cai, and Alex C Kot.

Task-in-all domain adaptation for semantic segmentation. In *2019 IEEE Visual Communications and Image Processing (VCIP)*, pages 1–4. IEEE, 2019.

- [8] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. T2net: Synthetic-to-realistic translation for solving single-image depth estimation tasks. In *Proceedings of the European Conference on Computer Vision (ECCV)*, pages 767–783, 2018.
- [9] **Chuanxia Zheng**, Jianhua Wang, Weihai Chen, and Xingming Wu. Multi-class indoor semantic segmentation with deep structured model. *The Visual Computer (TVCJ)*, 34(5):735–747, 2018.
- [10] Jianhua Wang, **Chuanxia Zheng**, Weihai Chen, and Xingming Wu. Learning aggregated features and optimizing model for semantic labeling. *The Visual Computer (TVCJ)*, 33(12):1587–1600, 2017.
- [11] **Chuanxia Zheng**, Jianhua Wang, Weihai Chen, and Xingming Wu. Semantic segmentation based on aggregated features and contextual information. In *2016 IEEE International Conference on Robotics and Biomimetics (ROBIO)*, pages 862–867. IEEE, 2016.
- [12] Jianhua Wang, **Chuanxia Zheng**, Weihai Chen, and Xingming Wu. Learning contextual information for indoor semantic segmentation. In *2016 IEEE 11th Conference on Industrial Electronics and Applications (ICIEA)*, pages 1639–1644. IEEE, 2016.

Preprints

- [13] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Tfill: Image completion via a transformer-based architecture. *arXiv*.

Academic Services

Journal Reviewer

- TPAMI IEEE Transactions on Pattern Analysis and Machine Intelligence
- IJCV International Journal of Computer Vision — Special Issue on Generative Adversarial Networks for Computer Vision
- TIP IEEE Transactions on Image Processing
- TMM IEEE Transactions on Multimedia (**Outstanding Reviewer Award, 2021**)
- TCSVT IEEE Transactions on Circuits and Systems for Video Technology
- CVIU Computer Vision and Image Understanding
- TVCJ The Visual Computer

Conference Reviewer

- 2021 CVPR, ICCV, ICLR, ACM MM
- 2020 CVPR, ECCV
- 2019 ICCV

Awards & Honors

- 2021 NTU Outstanding PhD Thesis Award (Nomination, waiting for defence)
- 2021 TMM Outstanding Reviewer Award
- 2017 NTU Research Scholarship
- 2015,2016 First Prize Scholarship for Excellent Student
- 2014 Outstanding Graduate of Beijing
- 2013 National Second Prize of the National Electronic Design Contest (**Best one in Beijing**)
- 2012 Hanergy Special Scholarship (**Top 1%**)
- 2011 Siemens Special Scholarship (**Top 1%**)

Talks

- 2019 **Pluralistic Image Completion**, *Institute of Media Innovation*, NTU.
- 2018 **Depth Estimation from Single 2D Image**, *Institute of Media Innovation*, NTU.

———— Teaching

2018–2020 **Teaching Assistant**, *Advanced Digital Image Processing*, NTU.

2018–2020 **Teaching Assistant**, *Human-Computer Interaction*, NTU.