

Chuanxia Zheng

Curriculum Vitae

Institute of Media Innovation
Nanyang Technological University

✉ chuanxia001@e.ntu.edu.sg

📍 [lyndonzheng](https://www.lyndonzheng.com/)

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

Education

- 2017–present **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

- 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] Guoxian Song, Linjie Luo, Jing Liu, Chunpong Lai, **Chuanxia Zheng**, and Tat-Jen Cham. Agilegan: Stylizing portraits by inversion-consistent transfer learning. *ACM Transactions on Graphics (Proceedings of ACM SIGGRAPH)*, 2021.
- [2] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. The spatially-correlative loss for various image translation tasks. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
- [3] **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.
- [4] 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.
- [5] **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.
- [6] **Chuanxia Zheng**, Jianhua Wang, Weihai Chen, and Xingming Wu. Multi-class indoor semantic segmentation with deep structured model. *The Visual Computer (TVCG)*, 34(5):735–747, 2018.
- [7] Jianhua Wang, **Chuanxia Zheng**, Weihai Chen, and Xingming Wu. Learning aggregated features and optimizing model for semantic labeling. *The Visual Computer (TVCG)*, 33(12):1587–1600, 2017.
- [8] **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.

- [9] 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

- [10] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Tfill: Image completion via a transformer-based architecture. *Under review*.
- [11] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Pluralistic free-form image completion. *Under review*.
- [12] **Chuanxia Zheng**, Duy-Son Dao, Guoxian Song, , Tat-Jen Cham, and Jianfei Cai. Visiting the invisible: layer-by-layer completed scene decomposition. *Under review*.

Academic Service

Journal and Conference Reviewer

Journal TPAMI, TIP, TMM, TCSVT, CVIU, TVCJ
Conference CVPR, ICCV, ECCV

Awards & Honors

- 2017 NTU Research Scholarship
2015,2016 First Prize Scholarship for Excellent Student
2014 Outstanding Graduate in 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%**)

Teaching

- 2018–2020 **Teaching Assistant**, *Human-Computer Interaction*, NTU.
2018–2020 **Teaching Assistant**, *Advanced Digital Image Processing*, NTU.