



# Yurong Chen

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**Research interests:** Low-level Image Processing  
Snapshot Spectral Imaging  
Computational Imaging

## Education

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|-------------------|--|
| 2021.08~ Now      | <b>Ph.D student</b> <ul style="list-style-type: none"><li>• <b>Hunan University</b> (U.S.News #168 in Best Global Universities) &amp; National Engineering Research Center of Robot Visual Perception and Control Technology</li></ul> |
| 2019.08 ~ 2020.06 | <b>Master (by thesis)</b> <ul style="list-style-type: none"><li>• <b>University of Pittsburgh</b> (U.S.News #45 in Best Global Universities)<br/>GPA:3.68/4.0<br/>Majored in Electrical &amp; Computer Engineering (ECE)</li></ul>     |
| 2015.09 ~ 2019.06 | <b>Bachelor</b> <ul style="list-style-type: none"><li>• <b>Changsha University of Science &amp; Technology</b><br/>Majored in Electrical &amp; Information Engineering<br/>CUST Academic Year 2016/2017/2018 Scholarship</li></ul>     |

## Publications

- [1] **Y. Chen**, Y. Wang, H. Zhang, "Prior Image Guided Snapshot Spectral Compressive Imaging," *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023 [[During Ph.D](#)].
- [2] **Y. Chen**, H. Zhang, Y. Wang, et al. "Flex-DLD: Deep Low-rank Decomposition Model with Flexible Priors for Hyperspectral Image Denoising and Restoration," *IEEE Trans. on Image Processing (TIP)*, 2023 [[During Ph.D](#)].
- [3] **Y. Chen**, Y. Wang, H. Zhang, "Prior Images Guided Generative Autoencoder Model for Dual-Camera Compressive Spectral Imaging," *IEEE Trans. Circuits and Systems for Video Technology (TCSVT)*, 2024 [[During Ph.D](#)].
- [4] **Y. Chen**, H. Zhang, Y. Wang, et al., "D-BIN: A Generalized Disentangling Batch Instance Normalization for Domain Adaptation," *IEEE Trans. on Cybernetics (TCyber)*, 2023 [[During Ph.D](#)].

- [5] **Y. Chen**, H. Zhang, Y. Wang, et al., "ADMM-DSP: A Deep Spectral Image Prior for Snapshot Spectral Image Demosaicing," *IEEE Trans. on Industrial Informatics (TII)*, 2023 [[During Ph.D.](#)].
- [6] **Y. Chen**, H. Zhang, Y. Wang, et al., "MAMA Net: Multi-Scale Attention Memory Autoencoder Network for Anomaly Detection," *IEEE Trans. on Medical Imaging (TMI)*, 2021 [[During Ph.D.](#)].
- [7] **Y. Chen**, H. Zhang, Y. Wang, et al., "TAE-Seg: Generalized Lung Segmentation via Tile-wise Autoencoder Enhanced Network," *IEEE Trans. on Instrumentation and Measurement (TIM)*, 2022 [[During Ph.D.](#)].
- [8] **Y. Chen** H. Tang, L. Guo, et al., "A Generalized Framework of Pathlength Associated Community Estimation for Brain Structural Network," *International Symposium on Biomedical Imaging (ISBI)*, 2020 [[During Master](#)].
- [9] J. C. Peven, **Y. Chen**, L. Guo, et al., "The Oblique Effect: The Relationship Between Profiles of Visuospatial Preference, Cognition, and Brain Connectomics in Older Adults," *Neuropsychologia*, 2019 [[During Master](#)].
- [10] H. Zhang, **Y. Chen\***, Y. Song, et al., "Automatic Kidney Lesion Detection for CT Images using Morphological Cascade Convolutional Neural Networks," *IEEE Access*, 2019 [[During Undergraduate](#)].
- [11] H. Zhang, Y. Song, **Y. Chen\***, et al., "MRSDI-CNN: Multi-Model Rail Surface Defect Inspection System Based on Convolutional Neural Networks," *IEEE Trans. on Intelligent Transportation Systems (TITS)*, 2021 [[During Undergraduate](#)].
- [12] A. Yin, Y. Wang, **Y. Chen**, et al., "SSAPN: Spectral-Spatial Anomaly Perception Network for Unsupervised Vaccine Detection," *IEEE Trans. on Industrial Informatics (TII)*, 2022 [[During Ph.D.](#)].
- [13] H Zhang, L Wu, **Y. Chen**, et al., "Attention-guided Multitask Convolutional Neural Network for Power Line Parts Detection," *IEEE Trans. on Instrumentation and Measurement (TIM)*, 2022 [[During Ph.D.](#)].

## ***Honor***

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- [1] *IEEE Outstanding Leadership Award as Publicity Chair.*
- [2] *Award by CSIG Graduate Academic Forum.*