Xinwei Li

School of Life Health Information Science and Engineering
Chongqing University of Posts and Telecommunications

✉ Email
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EDUCATION

- **Beihang University** — Beijing, China
  B.E. - Biomedical Engineering — *September 2007 - June 2011*

- **Beihang University** — Beijing, China
  Ph.D - Biomedical Engineering — *September 2011 - March 2018*

- **University of Illinois at Urbana-Champaign** — Champaign, IL, USA
  Beckman Institute - Jointly trained — *September 2016 - August 2017*

WORKING EXPERIENCE

- **Chongqing University of Posts and Telecommunications** — *June 2024 - Present*
  Wenfeng Professor, School of Life Health Information Science and Engineering

- **Chongqing University of Posts and Telecommunications** — September 2023 - May 2024
  Wenfeng Professor - School of Bioinformatics,

- **Chongqing University of Posts and Telecommunications** — January 2022 - August 2023
  Associate Professor - School of Bioinformatics

- **Chongqing University of Posts and Telecommunications** — April 2018 - December 2021
  Assistant Professor - School of Bioinformatics

RESEARCH INTERESTS

- Medical Image Analysis
- Neuroscience
- Artificial Intelligence

SELECTED PUBLICATIONS

1. **Three autism subtypes based on single-subject grey matter network revealed by semi-supervised machine learning**
   Guomei Xu, Guohong Geng, Ankang Wang, Zhangyong Li, Zhichao Liu, Yanping Liu, Jun Hu, Wei Wang*, Xinwei Li*
   Autism Research, 2024, 17(10): 1962-1973.
   DOI: /10.1002/aur.3183

2. **Syn_SegNet: A joint deep neural network for ultrahigh-field 7T MRI synthesis and hippocampal subfield segmentation in routine 3T MRI.**
   Xinwei Li, Linjin Wang, Hong Liu, Baoqiang Ma, Lei Chu, Xiaoxi Dong, Debin Zeng, Tongtong Che, Xiaoming Jiang, Wei Wang, Jun Hu, Shuyu Li*
   IEEE Journal of Biomedical and Health Informatics, 2023, 27(10): 4866-4877.
   DOI:10.1109/JBHI.2023.3305377

3. **Autism spectrum disorder diagnosis based on deep unrolling-based spatial constraint representation**
Dajiang Lei, Tao Zhang, Yue Wu, Weisheng Li, Xinwei Li*
Medical and Biological Engineering and Computing, 2023, 61(11): 2829-2842.
DOI:/10.1007/s11517-023-02859-2

4. **Anatomically constrained squeeze-and-excitation graph attention network for cortical surface parcellation**
Xinwei Li[#*], Jia Tan[#], Panyu Wang, Hong Liu, Zhangyong Li, Wei Wang[*].
Computers in Biology and Medicine, 2022, 140: 105113.
DOI: /10.1016/j.compbiomed.2021.105113

5. **Brain Morphometric Abnormalities in Boys with Attention-Deficit/Hyperactivity Disorder Revealed by Sulcal Pits-Based Analyses.**
Xinwei Li*, Yuhao Jiang, Wei Wang, Xiaoxue Liu, Zhangyong Li*
CNS Neuroscience & Therapeutics, 2021, 27(3): 299-307.
DOI:/10.1111/cns.13445

6. **Autism Spectrum Disorder Diagnosis Using Graph Attention Network Based on Spatial-Constrained Sparse Functional Brain Networks.**
Chunde Yang, Panyu Wang, Jia Tan, Qingshui Liu, Xinwei Li*
Computers in Biology and Medicine, 2021, 139: 104963.
DOI:/10.1016/j.compbiomed.2021.104963

7. **Atypical sulcal pattern in boys with attention-deficit/hyperactivity disorder**
Xinwei Li*, Wei Wang, Panyu Wang, Chenru Hao, Zhangyong Li*
Human Brain Mapping, 2021, 42(13): 4362-4371.
DOI: /10.1002/hbm.25552

FUNDING

- Research on Individual Morphological Brain Network Construction Methods for Accurate Auxiliary Diagnosis of Mild Cognitive Impairment, National Natural Science Foundation of China, No.62106032, 2022/01/01 - 2024/12/31, Role on Project: PI

- Research and Development of Bone Marrow Cell Image Recognition Medical Devices, Science and Technology Innovation Key R&D Program of Chongqing, 2024/01/01 - 2026/12/31, Role on Project: PI of CQUPT

- Research and Application of Big Data AI-based Medication Guidance System for Liver Transplantation, Chongqing technology innovation and application development key project, 2022/01/01 - 2024/12/31, Role on Project: PI of CQUPT

- Research on Automatic Segmentation Methods for Hippocampal Subregions Based on 3T-7T Paired Magnetic Resonance Imaging, Key project of Science and Technology Research Program of Chongqing Municipal Education Commission, 2024/10/01 - 2027/09/30, Role on Project: PI

SERVICES

- Executive Member: Cardiovascular and Cerebrovascular Disease Prevention and New Technology Application Branch, Chinese Aging Well Association

- Council Member: Chongqing Society of Digital Medicine

- Junior Editorial Board: Biomedical Engineering Communications

- Junior Editorial Board: Advanced Biotechnology

- Journal Reviewer: Neuroimage; IEEE Journal of Biomedical and Health Informatics; Journal of Neurodevelopmental Disorders; Biomedical Signal Processing and Control; etc