

# Nan Chen

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## RESEARCH INTEREST

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Machine Learning; Complex Network; Brain Imaging, Network Neuroscience

## EDUCATION

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<b>Lanzhou University</b> <i>School of Information Science and Engineering, Major in Computer science and technology</i>	M.E. 09/2019-Present GPA: 3.59/4
<b>Taiyuan University of Technology</b> <i>College of Information Engineering, Major in Automation</i>	B.E. 09/2014-06/2018 GPA: 3.47/4

## RESEARCH EXPERIENCE

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<b>Ubiquitous Awareness and Intelligent Solution Lab</b> <i>Lanzhou University</i>	04/2019-Present <i>Master student</i>
<ul style="list-style-type: none"><li>Engaged in researches of brain network modeling and community detection, especially in dynamic and multimodal brain networks</li><li>16 journal papers indexed by SCI and 1 conference paper were submitted (first author 5, other authors 12), in which 5 of them have been accepted</li></ul>	

## WORK EXPERIENCE

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<b>Data Intelligence Centre</b> <i>Inspur</i>	07/2018-04/2019 <i>Artificial Intelligence Algorithm Engineer</i>
<ul style="list-style-type: none"><li>Participated in the Knowledge Mapping Project of China Foreign Languages Publishing Administration, responsible for the development of fundamental NLP tools and the visualization of knowledge mapping</li><li>Participated in the precipitation trend prediction project of Guizhou Meteorological Bureau, responsible for data processing and deep model construction</li><li>Participated in the KGO search project of China Knowledge Centre for Engineering Sciences and Technology, responsible for the searching algorithm</li></ul>	

## PUBLICATIONS

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**Nan Chen**, Jie Shi, Yongchao Li, Shanling Ji, Ying Zou, Lin Yang, Zhijun Yao, Bin Hu. "Decreased Dynamism of Overlapping Brain Sub-networks in Major Depressive Disorder". *Journal of Psychiatric Research*, 2020. **Major Revision**

**Nan Chen**, Guangyao Liu, Man Guo, Yongchao Li, Zhijun Yao, Bin Hu. "Calcarine as a bridge between brain function and structure in Irritable Bowel Syndrome: a fMRI-DTI based multiplex network analysis". *Journal of Gastroenterology and Hepatology*, 2020. **Major Revision**

**Nan Chen**, Man Guo, Yongchao Li, Shan Li, Zhijun Yao, Bin Hu. "Estimation of discriminative multimodal connectivity using message-passing-based nonlinear network fusion". *IEEE Journal of Biomedical and Health Informatics*, 2020. **Under review**

**Nan Chen**, Lirong Teng, Man Guo, Yongchao Li, Zhengwu Yang, Yu Fu, Zhijun Yao, Bin Hu. "Automatic Diagnosis of Major Depressive Disorder with Integration of Dynamic and Static Properties of Brain Functional Network". *Artificial Intelligence in Medicine*, 2020. **Under review**

Hong Chai, **Nan Chen**, Shan Li, Lei Fang. "Fusing intensity, texture, shape and deep model-learned information of nodules to differentiate lung cancer and pulmonary tuberculosis on PET/CT images". *Annals of Nuclear Medicine*, 2020. (Co-first Author) **Under review**

Yongchao Li, **Nan Chen**, Yin Wang, Lin Yang, Weihao Zheng, Zhijun Yao, Bin Hu. "Integration of a novel attribute and classical topology metrics of hyper-networks for automatic diagnosis of Major depressive disorder". *IEEE HealthCom 2020*, 2020: IEEE

Guangyao Liu, Shan Li, **Nan Chen**, Ziyang Zhao, Man Guo, Hong Liu, Jie Feng, Dekui Zhang, Zhijun Yao, Bin Hu. "Vulnerable functional connections in irritable bowel syndrome patients rather than structure". *Journal of Neurogastroenterology and Motility*, 2020. **In Press**

Man Guo, Tiancheng Wang, Zhe Zhang, **Nan Chen**, Yongchao Li, Yin Wang, Zhijun Yao, Bin Hu. "Diagnosis of major depressive disorder using whole-brain effective connectivity networks derived from resting-state functional MRI". *Journal of Neural Engineering*, 2020, 17(5): 056038

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## HONORS & AWARDS

**Second Prize**, Freescale Intelligence Car Competition, 2015

**First Prize**, China Undergraduate Mathematical Contest in Modeling, 2016

**Meritorious Winner**, The Interdisciplinary Contest in Modeling, 2017

**Individual Scholarship**, Taiyuan University of Technology, 2017

**Scholarship for Science and Technology Practice**, Taiyuan University of Technology, 2017

**The Third Prize Scholarship**, Lanzhou University, 2019

**The First Prize Scholarship**, Lanzhou University, 2020

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## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, Matlab

**Pre-processing Tools:** DPABI (fMRI), PANDA (DTI), Brainstorm (MEG)

**Scientific Computing Libraries:** NumPy, SciPy and Pandas

**Drawing Tools:** Matplotlib, Seaborn, Origin

**Algorithms:** Perceptron, kNN, Naïve Bayes, Decision Tree, Logistic Regression, SVM, Boosting, Random Forest, EM, HMM, CRF, Clustering, SVD, PCA, LSA, NMF, LDA, PageRank, BP

**Frameworks:** TensorFlow, Keras

**Other:** Matrix Theory, Graph Theory, Optimization, Complex Network, Data Structure

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## REFERENCES

**XXX**, Professor, Lanzhou University (xxx@lzu.edu.cn, +86)

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