

# Lei Zhou (周雷)

HASHING RETRIVEAL · SUBSPACE CLUSTERING · ZERO-SHOT LEARNING · FEW-SHOT LEARNING

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## Educations

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**Beihang University, Beijing, China**

PhD Student in School of Computer Science and Engineering

*Sep.2018 – Present*

- Advisor: Prof. Xiao Bai

**Beihang University, Beijing, China**

Master in School of Computer Science and Engineering

*Sep. 2016 – Jun. 2018*

- Advisor: Prof. Wenzhong Tang

**Beihang University, Beijing, China**

Bachelor in School of Mathematics and System Science

*Sep. 2012 – Jun. 2016*

- Major classes: Mathematical Analysis, Advanced Algebra, Numerical Analysis, Probability and Mathematical Statistics

- GPA: 3.21/4.0 (top 20% in school)

- Average Score: 82.4

## Publications

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**Learning Binary Code for Fast Nearest Subspace Search.**

*PR 2020*

*Lei Zhou, Xiao Bai, Xianglong Liu, Jun Zhou, Edwin Hancock*

**Subspace Structure Regularized Nonnegative Matrix Factorization for Hyperspectral Unmixing.**

*Lei Zhou, Xueni Zhang, Jianbo Wang, Xiao Bai, Lei Tong, Liang Zhang, Jun Zhou, Edwin Hancock*

*JSTARS 2020*

**Matrix Classifier on Dynamic Functional Connectivity for MCI Classification.**

*ICIP 2020*

*Lei Zhou, Xiao Bai, Liang Zhang, Jun Zhou*

**Fast Subspace Clustering Based on the Kronecker Product.**

*ICPR 2020*

*Lei Zhou, Xiao Bai, Liang Zhang, Jun Zhou, Edwin Hancock*

**Latent Distribution Preserving Deep Subspace Clustering.**

*IJCAI 2019 (Oral)*

*Lei Zhou, Xiao Bai, Dong Wang, Xianglong Liu, Jun Zhou, Edwin Hancock*

**A One-step Pruning-recovery Framework for Acceleration of Convolutional Neural Networks.**

*ICTAI 2019*

*Dong Wang, Xiao Bai, Lei Zhou, Jun Zhou.*

**Symmetric Relative Entropy based Deep Supervised Hashing.**

*PRL 2019*

*Xueni Zhang\*, Lei Zhou\*, Xiao Bai, Xiushu Luan, Jie Luo, Edwin Hancock (\*Equal contribution)*

**Binary Coding by Matrix Classifier for Efficient Subspace Retrieval.**

*ICMR 2018 (Oral)*

*Lei Zhou, Xiao Bai, Xianglong Liu, Jun Zhou*

**Iterative Deep Subspace Clustering.**

*S+SSPR 2018*

*Lei Zhou, Shuai Wang, Xiao Bai, Jun Zhou, Edwin Hancock*

**Deep Supervised Hashing with Information Loss.**

*S+SSPR 2018*

*Xueni Zhang, **Lei Zhou**, Xiao Bai, Edwin Hancock*

**Nonlocal Similarity Based Nonnegative Tucker Decomposition for Hyperspectral Image Denoising.**

*Xiao Bai, Fan Xu, **Lei Zhou**, Yan Xing, Lu Bai, Jun Zhou*

*JSTARS 2018*

## Honors & Awards

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### Scholarship & Honors

- 2012 **Undergraduate Freshman Scholarship** (CNY 4,000)
- 2014 **Scholarship of Discipline Competition** (3rd-prize)
- 2015 **Scholarship of Discipline Competition** (2nd-prize)
- 2016 **Postgraduate Academic Scholarship** (2nd-prize)
- 2018 **Doctoral Freshman Scholarship** (CNY 30,000)
- 2019 **Postgraduate Academic Scholarship** (1nd-prize)
- 2019 **National Scholarship (PhD)** (CNY 30,000)
- 2020 **Postgraduate Academic Scholarship** (1nd-prize)

### Awards

- 2014 **Student Research Training Program (S RTP)**  
Members: *Ziqiao Ying, Mengxuan Yang, **Lei Zhou***
- 2014 **Mathematical Contest In Modeling (MCM)**  
Title: **College Coaching Legends** (Successful Participant)
- 2015 **Mathematical Contest In Modeling (MCM)**  
Title: **Eradicating Ebola** (Honorable Mention)

## Skills

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**Programming**      Python, C++

**Tools**              PyTorch, TensorFlow, Matlab, LaTeX

## Experiences

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### Reviewer

S+SSPR 2018, BMVC 2019, CVPR 2021, Pattern Recognition, Pattern Recognition Letters, Signal Processing

### Volunteers

Organizing and reception of the IAPR Joint International Workshops on Statistical Techniques in Pattern Recognition and Structural and Syntactic Pattern Recognition (S+SSPR 2018)