

LEI XU

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EDUCATION

Northwestern Polytechnical University (NWPU), Shaanxi, China 2021.9 – 2024.4

School of Computer Science, *M. Eng.* in Electronic Information

Advisor: Prof. [Feiping Nie](#)

GPA: 91.5/100 (Rank: 1/208)

Core Courses: Matrix Theory (93), Mathematical Statistics (98), The Theory, Methodology and Application of Artificial Intelligence (90), Machine Learning and Model Optimization (87)

Nanjing University of Posts and Telecommunications (NJUPT), Nanjing, China 2017.9 – 2021.6

Bell Honors School, *B. Eng.* in Information Security

Advisor: Prof. [Lei Chen](#)

GPA: 93.1/100 (Rank: 3/63)

Core Courses: Advanced Mathematics A I (88), Advanced Mathematics A II (100), Linear Algebra and Analytic Geometry (88), Probability and Stochastic Process (99)

IELTS: 7.0 (Total), 7.5 (Reading), 6.5 (Listening), 6.5 (Writing), 6.5 (Speaking)

Programming Skills: Python, MATLAB

TEACHING

Teaching Assistant for Fundamentals of Machine Learning 2022 - 2023, 2023 - 2024

Tutor at the Students' Association for Science and Technology 2018 - 2019

HONORS AND AWARDS

Xiaomi Special Scholarship (Only 10 awardees in NWPU) 2023

National Scholarship for Graduate Students (Rank: 1/208) 2022

National Scholarship for Undergraduate Students (Rank: 2/159) 2018

Outstanding Graduate in NJUPT 2021

1st Prize in Jiangsu Mathematics Competition for College Students 2018

PUBLICATIONS

Here is a list of my publications (selected). For full publications, please refer to my [Google Scholar](#).

Accepted (*advisor, #co-advisor)

- **Lei Xu**, Lei Chen, Rong Wang[#], Feiping Nie*, Xuelong Li : *Joint Feature and Differentiable k -NN Graph Learning using Dirichlet Energy*, **NeurIPS 2023**. [[PDF](#)]
- **Lei Xu**, Rong Wang[#], Feiping Nie*, Xuelong Li: *Efficient Top- k Feature Selection Using Coordinate Descent Method*, **AAAI 2023**. [[PDF](#)] [[Code](#)]
- **Lei Xu**, Rong Wang[#], Feiping Nie*, Jun Wu, Xuelong Li: *Semi-Supervised Top- k Feature Selection with a General Optimization Framework*, **ICME 2023**. [[PDF](#)]
- **Lei Xu**, Hui Wu, Chunming He, Jun Wang, Changqing Zhang, Feiping Nie*, Lei Chen: *Multi-modal sequence learning for Alzheimer's disease progression prediction with incomplete variable-length longitudinal data*, **Medical Image Analysis (JCR Q1, IF=10.9)**, 2022. [[PDF](#)] [[Code](#)]
- Lingsheng Wang, **Lei Xu**, Ping Li, Siming Zha, Lei Chen: *Modeling Disease Progression via Weakly Supervised Temporal Multitask Matrix Completion*, **SMC 2020**. [[PDF](#)]

Under Review

- Rong Wang[#], **Lei Xu**, Feiping Nie*, Xuelong Li: *Revisiting $\ell_{2,0}$ -norm Constrained Least Square Regression Problem*, Submitted to **IEEE TPAMI (JCR Q1, IF=23.6)**, major revision.