

# LEI XU

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## EDUCATION

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**Northwestern Polytechnical University (NWPU)**, Shaanxi, China 2021 – Present

School of Computer Science

*Master student* in Electronic Information, expected March 2024

Advisor: Prof. [Feiping Nie](#)

GPA: 91.5/100 (Rank: 2/208)

**Nanjing University of Posts and Telecommunications (NJUPT)**, Nanjing, China 2017 – 2021

Bell Honors School

*B. Eng.* in Information Security

Advisor: Prof. [Lei Chen](#)

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

## TEACHING

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**Teaching Assistant** for Fundamentals of Machine Learning 2022 Fall

## HONORS AND AWARDS

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**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

**1<sup>st</sup> Prize** in Jiangsu Mathematics Competition for College Students 2018

## PUBLICATIONS

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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<sup>#</sup>, Feiping Nie\*, Xuelong Li: *Joint Feature and Differentiable k-NN Graph Learning using Dirichlet Energy*, **NeurIPS 2023 (CCF-A)**. [[PDF](#)]
- **Lei Xu**, Rong Wang<sup>#</sup>, Feiping Nie\*, Jun Wu, Xuelong Li: *Semi-Supervised Top-k Feature Selection with a General Optimization Framework*, **ICME 2023 (CCF-B)**. [[PDF](#)]
- **Lei Xu**, Rong Wang<sup>#</sup>, Feiping Nie\*, Xuelong Li: *Efficient Top-k Feature Selection Using Coordinate Descent Method*, **AAAI 2023 (CCF-A)**. [[PDF](#)] [[Code](#)]
- **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=13.83)**, 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 (CCF-C)**. [[PDF](#)]

Under Review

- Rong Wang<sup>#</sup>, **Lei Xu**, Feiping Nie\*, Xuelong Li: *Revisiting  $\ell_{2,0}$ -norm Constrained Least Square Regression Problem*, Submitted to **IEEE TPAMI (IF=24.31)**, major revision.

## PATENTS

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- CN202110812104 (In process), “A disease progression modeling method for Alzheimer's Disease”.
- CN202010411275 (Issued Aug. 26, 2022), “A noise-resilient multilabel classification method incorporating group sparsity constraints and graph trend filtering”.