

# Su Lu

MACHINE LEARNING · ARTIFICIAL INTELLIGENCE

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## Education

### Northwestern Polytechnical University

B.S. IN COMPUTER SCIENCE AND TECHNOLOGY

- GPA 3.91 / 4.00 (ranked 1 / 183).

*Xi'an, China*

*Sept. 2014 - Jun. 2018*

### Nanjing University

PH.D. IN COMPUTER SCIENCE AND TECHNOLOGY

- Served as student council president of LAMDA group during 2020.

*Nanjing, China*

*Sept. 2018 - Jun. 2024*

## Publication

### Generalized Knowledge Distillation via Relationship Matching

*TPAMI*

HAN-JIA YE, SU LU, DE-CHUAN ZHAN

- Distilled knowledge from a generalized teacher model which may have a same, overlapped, or totally different label space from student.

### Towards Enabling Meta-Learning from Target Models

*NeurIPS'21*

SU LU, HAN-JIA YE, LE GAN, DE-CHUAN ZHAN

- Studied a special training protocol in meta-learning that utilizes ideal target models to defend biased sampling of query sets.

### Tailoring Embedding Function to Heterogeneous Few-Shot Tasks by Global and Local Feature Adaptors

*AAAI'21*

SU LU, HAN-JIA YE, DE-CHUAN ZHAN

- Applied global and local feature transformations to meta-learned representation for few-shot tasks of different granularities.

### Distilling Cross-Task Knowledge via Relationship Matching

*CVPR'20*

HAN-JIA YE, SU LU, DE-CHUAN ZHAN

- Utilized the comparison ability of a cross-task teacher to assist the training of student models in knowledge distillation and other applications.

### Multi-View Anomaly Detection: Neighborhood in Locality Matters

*AAAI'19*

XIANG-RONG SHENG, DE-CHUAN ZHAN, SU LU, YUAN JIANG

- Discerned both dissension anomalies and unanimous anomalies in multi-view anomaly detection without relying on clustering assumption.

### Selective Cross-Task Distillation

*Submitted to TPAMI*

SU LU, HAN-JIA YE, DE-CHUAN ZHAN

- Studied a new distillation setting where multiple cross-task teachers are available.
- ArXiv: <https://arxiv.org/abs/2204.11526>

### Few-Shot Action Recognition with Compromised Metric via Optimal Transport

*Submitted to TIP*

SU LU, HAN-JIA YE, DE-CHUAN ZHAN

- Tackled few-shot action recognition via optimal transport by simultaneously considering long-term and short-term temporal information.
- ArXiv: <https://arxiv.org/abs/2104.03737>

## Project

## App Usage Prediction and Preloading

ALGORITHM RESEARCHER AND ENGINEER

Jan. 2019 - Jul. 2019

- Party A: Consumer Business Group, HUAWEI Technologies Co.,Ltd.
- This technology has been launched in Harmony OS service of HUAWEI P40.

## Some Project

PROJECT LEADER

Jan. 2021 - present

- Party A: Science and Technology Commission, Central Military Commission.
- Served as project leader and responsible for both R&D and management.

## Experience

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### Department of Strategic Investment, HUAWEI Technologies Co.,Ltd.

Shenzhen, China

TECHNICAL INSIGHT INTERN

Oct. 2019 - Aug. 2020

- Discerned technical innovation trends in AI and dynamics of cutting-edge technologies.
- Supported to integrate technical resources and construct global roadmap of AI industries.

## Honor

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### SCHOLARSHIP

2021	<b>Tencent Scholarship,</b>	Nanjing, China
2020	<b>First-Class Academic Scholarship of Nanjing University,</b>	Nanjing, China
2019	<b>First-Class Academic Scholarship of Nanjing University,</b>	Nanjing, China
2017	<b>First-Class Scholarship of Northwestern Polytechnical University,</b>	Xi'an, China
2016	<b>National Scholarship for Undergraduates,</b>	Xi'an, China
2016	<b>First-Class Scholarship of Northwestern Polytechnical University,</b>	Xi'an, China
2015	<b>National Scholarship for Undergraduates,</b>	Xi'an, China
2015	<b>First-Class Scholarship of Northwestern Polytechnical University,</b>	Xi'an, China

### AWARD

2018	<b>CCF Elite Collegiate Student Award,</b>	Hangzhou, China
2017	<b>Silver Medal,</b> ACM-ICPC Asia Regional Contest	Qingdao, China
2017	<b>Silver Medal,</b> ACM-ICPC Asia Regional Contest	Urumqi, China
2017	<b>Silver Medal,</b> ACM-ICPC China Invitational Contest	Xi'an, China
2017	<b>Meritorious Winner,</b> Interdisciplinary Contest in Modeling	Xi'an, China
2016	<b>Silver Medal,</b> China Collegiate Programming Contest	Hangzhou, China
2016	<b>Bronze Medal,</b> ACM-ICPC Asia Regional Contest	Dalian, China
2016	<b>Bronze Medal,</b> ACM-ICPC Asia Regional Contest	Shenyang, China