

Ke WANG

PERSONAL DATA

EMAIL: k.wang@epfl.ch

CITIZENSHIP: Chinese

ABOUT ME

I am currently a second-year PhD student at EPFL working under the supervision of Prof. [Pascal Frossard](#). My research interests cover improving machine learning methods in terms of aspects such as reliability, robustness and data efficiency.

EDUCATION

- FEB. 2023 - PRESENT PhD. in MACHINE LEARNING (EDIC fellowship program)
[École Polytechnique Fédérale de Lausanne](#), Switzerland
- SEP. 2020 - FEB. 2023 M.S. in ELECTRICAL ENGINEERING (with specialization in Data Science and Systems)
[École Polytechnique Fédérale de Lausanne](#), Switzerland
GPA: 5.60 / 6.0
- SEP. 2016 - JUN. 2020 B.S. in ELECTRONIC INFORMATION SCIENCE AND TECHNOLOGY
[University of Electronic Science and Technology of China](#), China
GPA: 3.99 / 4.0; Ranks **1st** / **188**; Top **0.53%**

PROFESSIONAL EXPERIENCE

- FEB. 2023 - PRESENT **Doctoral Assistant** at [EPFL](#), Lausanne, Switzerland
Studied utilizing privileged information to explain away label noise when training neural networks.
Researching on the behavior of neural networks in model merging and editing.
- MAR. 2022 - SEP. 2022 **Machine Learning Intern** at [ORACLE LABS](#), Zürich, Switzerland
AUTOMATED MACHINE LEARNING AND EXPLAINABILITY (AUTOMLX) TEAM
Conducted research on using machine learning techniques to develop financial flow forecasting system.
- JULY 2019 - SEP. 2019 **Research Intern** at [CHINESE ACADEMY OF SCIENCES](#), Beijing, China
HIGH ENERGY INSTITUTE
Researched on applying deep learning techniques to aid data processing in particle physics experiments.

AWARDS AND HONORS

- 2023 **EPFL EDIC PhD Fellowship**, by EPFL
- 2020 **Excellent Graduate Award**, by UESTC
- 2020 **Excellent Alumni Award**, by School of Physical Electronics, UESTC
- 2019 **Meritorious Winner in MCM** (International Mathematical Contest in Modelling), 2019
- 2018-2019 **National Scholarship of China**
(highest-level scholarship across China for academic achievements.)
- 2018 **Excellent Award for Student Projects**
- 2016-2020 **Undergraduate Academic Excellence Scholarship**

PUBLICATIONS

- [1] **K. Wang***, N. Dimitriadis*, G. Ortiz-Jimenez, F. Fleuret, and P. Frossard. **Localizing Task Information for Improved Model Merging and Compression**. In: *Under review*. 2024.
- [2] **K. Wang**, G. Ortiz-Jimenez, R. Jenatton, M. Collier, E. Kokiopoulou, and P. Frossard. **Pi-DUAL: Using Privileged Information to Distinguish Clean from Noisy Labels**. In: *Under review*. 2024.

- [3] **K. Wang**, H. Machiraju, O.-H. Choung, M. Herzog, and P. Frossard. **CLAD: A Contrastive Learning based Approach for Background Debiasing**. In: *British Machine Vision Conference (BMVC)*. 2022.
- [4] **K. Wang**, B. Wang, S. Li, and M. Cieliebak. **Detection of Typical Sentence Errors in Speech Recognition Output**. In: *SwissText*. 2022.
- [5] **K. Wang**, G. Hu, Y. Zhang, M. Dan, L. Li, and Y. Zhang. **Polarization-Driven Edge-State Transport in Transition-Metal Dichalcogenides**. In: *Physical Review Applied*. 2020.

EXTRACURRICULAR ACTIVITIES

2018	Attended Winter Program in National University of Singapore on software development
2017	Attended Summer Program visiting University of Oxford and University of Cambridge
2016-2020	Member of Students Union of UESTC
2016-2020	Various voluntary activities; Awarded ‘Outstanding Volunteer in UESTC’
2016-2018	Class Monitor
2016-2018	Member of football team of School of Physical Electronics; Won Second Prize in Football Cup of UESTC

TEACHING EXPERIENCE

- Machine Learning
- Information, Computation and Communication
- Object-Oriented Programming

SOFTWARE SKILLS

LANGUAGES:	Python, MATLAB, C, SQL
FRAMEWORKS:	PyTorch, TensorFlow, Keras, Pandas, Numpy, Scikit-learn

LANGUAGES

CHINESE:	Native
ENGLISH:	C1, TOEFL iBT: 112 / 120
FRENCH:	Elementary (EPFL course)

PERSONAL INTERESTS

Football, Skiing, Traveling, History, Cinema