

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 , 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.	Lausanne, Switzerland
MAR. 2022 - SEP. 2022	Machine Learning Intern at ORACLE LABS , AUTOMATED MACHINE LEARNING AND EXPLAINABILITY (AUTOMLX) TEAM Conducted research on using machine learning techniques to develop financial flow forecasting system.	Zürich, Switzerland
JULY 2019 - SEP. 2019	Research Intern at CHINESE ACADEMY OF SCIENCES , HIGH ENERGY INSTITUTE Researched on applying deep learning techniques to aid data processing in particle physics experiments.	Beijing, China

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: *International Conference on Machine Learning (ICML)*. 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: *International Conference on Machine Learning (ICML)*. 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