

Kairan ZHAO

MB 4.17 – University of Warwick – Coventry, UK
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LinkedIn | Google Scholar | GitHub | Homepage

Education

University of Warwick

Jan. 2023 - present

Coventry, UK

- Ph.D. in Computer Science
- Advisors: Prof. [Peter Triantafillou](#)
- Research focus: Machine Unlearning, Machine Learning Privacy

Xi'an Jiaotong University

Sep. 2019 - Jun. 2022

Xi'an, China

- M.Sc. in Control Engineering
- Advisors: Prof. [Chao Shen](#), Prof. [Meng Zhang](#), Prof. [Xiaohong Guan](#)
- Member of MOE Key Lab for Intelligent Networks and Network Security
- GPA: 3.72/4.0 (Top 1%)

École Centrale de Lille

Jul. 2017 - Jun. 2019

Lille, France

- M.Eng. in General Engineering (Diplôme d'Ingénieur Généraliste)
- Double Master's Degree Program

Xi'an Jiaotong University

Sep. 2015 - Jun. 2019

Xi'an, China

- B.Eng. in Computer Science and Technology

Publications & Patents

- **What makes unlearning hard and what to do about it.** [Kairan Zhao](#), Meghdad Kurmanji, George-Octavian Bărbulescu, Eleni Triantafillou, Peter Triantafillou. *NeurIPS 2024* ([link](#))
- **Scalability of memorization-based machine unlearning.** [Kairan Zhao](#), Peter Triantafillou. *NeurIPS 2024 Workshop on Fine-Tuning in Modern Machine Learning: Principles and Scalability (FITML)*
- **Are we making progress in unlearning? Findings from the first NeurIPS unlearning competition.** Eleni Triantafillou, Peter Kairouz, Fabian Pedregosa, Jamie Hayes, Meghdad Kurmanji, [Kairan Zhao](#), Vincent Dumoulin, Julio Jacques Junior, Ioannis Mitliagkas, Jun Wan, Lisheng Sun Hosoya, Sergio Escalera, Gintare Karolina Dziugaite, Peter Triantafillou, Isabelle Guyon. *arXiv* ([link](#))
- **A Secure Intra-Regional-Inter-Regional Peer-to-Peer Electricity Trading System for Electric Vehicles.** [Kairan Zhao](#), Meng Zhang, Rongxing Lu, Chao Shen. *IEEE Transactions on Vehicular Technology* (2022) ([link](#))
- **Blockchain-Enabled EV P2P Electricity Trading Method, System and Equipment.** Meng Zhang, [Kairan Zhao](#), Chao Shen, Xiaohong Guan. 2023122701442020 ([link](#))

Professional Service

NeurIPS 2023 Machine Unlearning Competition ([NeurIPS Page](#), [Project Page](#), [Kaggle](#))

Competition organizer

- Developed unlearning baselines and attack models, integrating a unified API
- Reviewed participant code submissions for rule compliance and technical precision

Reviewer

- **Conferences:** ICLR 2025, AISTATS 2025, NeurIPS 2024
- **Journals & Academic Events:** WPCCS, IEEE Robotics & Automation Magazine

Programme Committee

- WPCCS (Warwick Postgraduate Colloquium in Computer Science) 2023

Experience

Department of Computer Science, University of Warwick

Senior Teaching Assistant

Oct. 2023 - present

- CS331 Neural Computing
- CS342 Machine Learning
- CS130 Mathematics for Computer Scientists

SPRITZ Group (Security and Privacy Research Group)

Research Assistant

Jun. 2022 - Nov.2023

- Advisors: Prof. [Mauro Conti](#), Dr. [Alessandro Brighente](#)
- Conducted research on security and privacy in Cyber-Physical Systems

Honors & Awards

Computer Science Centre for Doctoral Training and Research Scholarships

2023 – 2027

- Value: Tuition fees, stipend, travel expenses

Postgraduate & Undergraduate Academic Awards

2015 – 2022

- Excellent Student Leader of the Year (Top 3%)
- Excellent Student of the Year (Top 5%)
- First-class Scholarship (Top 5%)

National College Student Innovation & Entrepreneur Competition

2021

- Bronze medallist (Business Proposal for Intelligent Hotel Management Platform)

“Huawei Cup” 17th China Postgraduate Mathematical Contest in Modeling

2021

- National Third Prize (EEG Signal Analysis and Discriminant Model)

China Scholarship Council (CSC) Scholarship

2017 – 2019

- Selected through a rigid academic evaluation process organized by CSC

Extracurricular Activities

Student Staff Liaison Committee (SSLC), University of Warwick

May. 2023 – present

- Served as a representative of Computer Science PGR (Postgraduate Researcher) SSLC

ITCILO Winter Global Youth Forum 2021 & Internship Training Program

Jan. 2021 – Feb. 2021

- Participated in training activities with other global youth leaders within International Labour Organization
- Led a team to complete the training project and was selected as “Excellent Group Leader”

Global Governance Course

Nov. 2020 – Jan. 2021

Advisor: Prof. [Slav W. Hermanowicz](#), UC Berkeley

- Completed the course “Sustainable Development and Entrepreneurship: Ethics, Physics and Technology” with a score of 87/100 and was selected as “Excellent Student”

Sino-French Communication Student Association

Sep. 2019 – Oct. 2020

- Minister of Literature and Art Department

Volunteer for “Heart to Heart” Organization

Sep. 2015 – Jun. 2017

- Completed more than 30 hours of volunteer work

Skills

- **Programming Languages & Developer Tools:** Python, CUDA, Matlab, Linux, Git, Java, C, \LaTeX , Microsoft Office suite, etc.
- **Libraries:** PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, etc.
- **Languages:** Mandarin: Native; English: Advanced; French: Advanced