

Chenxiang ZHANG

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* EDUCATION

Ph.D. in Machine Learning, University of Luxembourg

Research interests: model merging, implicit bias, loss landscape, robustness

Oct 2023 - Oct 2027

Esch-sur-Alzette, Luxembourg

M.Sc. in Computer Science, University of Pisa

Grade: 110/110 cum laude (highest grade)

Sep 2020 - May 2023

Pisa, Italy

* PUBLICATIONS

Chenxiang Zhang, Alexander Theus, Damien Teney, Antonio Orvieto, Jun Pang, and Sjouke Mauw. How Does the Optimizer Implicitly Bias the Model Merging Loss Landscape?. *Preprint*, 2026.

Chenxiang Zhang, Jun Pang, and Sjouke Mauw. Spurious Privacy Leakage in Neural Networks. *Transactions on Machine Learning Research*, 2025.

Bram Grooten, Farid Hasanov, **Chenxiang Zhang**, Qiao Xiao, Boqian Wu, Zahra Atashgahi, Ghada Sokar, Shiwei Liu, Lu Yin, Elena Mocanu, Mykola Pechenizkiy, and Decebal Constantin Mocanu. NeuroTrails: Training with Dynamic Sparse Heads as the Key to Effective Ensembling. *Preprint*, 2025.

Chenxiang Zhang, Jun Pang, and Sjouke Mauw. Privacy Risks and Memorization of Spurious Correlated Data. *ICLR 2025 Workshop on Spurious Correlation and Shortcut Learning: Foundations and Solutions*, 2025.

Alessandro Pingitore, **Chenxiang Zhang**, Cristina Vassalle, Paolo Ferragina, Patrizia Landi, Francesca Mastorci, Rosa Sicari, Alessandro Tommasi, Cesare Zavattari, Giuseppe Prencipe, and Alina Sirbu. Machine Learning to Identify a Composite Indicator to Predict Cardiac Death in Ischemic Heart Disease. *International Journal of Cardiology*, 2024.

Bertrand Charpentier, **Chenxiang Zhang**, and Stephan Günnemann. Training, Architecture, and Prior for Deterministic Uncertainty Methods. *ICLR 2023 Workshop on Pitfalls of limited data and computation for Trustworthy ML*, 2023.

* EXPERIENCE

Software Engineer Intern, Amazon

Developed an internal tool using ML features to improve ad targeting on millions of users.

Oct 2022 - Apr 2023

Berlin, Germany

Research Assistant, Technical University of Munich

Research on uncertainty estimation and distribution shift with Dr. Bertrand Charpentier.

Feb 2022 - Aug 2022

Munich, Germany

Research Assistant, University of Pisa

Research on ML applied to real-world ischemic heart disease with Dr. Alessandro Pingitore.

Jan 2021 - Jan 2022

Pisa, Italy

* MISCELLANEOUS

Languages Italian (Native), English (C1), Chinese (HSK3)

Hobbies Hiking, climbing, boardgames, gamedev, and cooking