Chenxiang ZHANG

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✲ Education

Ph.D. in Machine Learning, University of Luxembourg *Oct 2023 - Oct 2027*
Research interests: model merging, implicit bias, loss landscape, robustness *Esch-sur-Alzette, Luxembourg*

M.Sc. in Computer Science, University of Pisa *Sep 2020 - May 2023*
Grade: 110/110 cum laude *Pisa, Italy*

✲ Experience

Visiting Researcher, Max Planck Institute for Intelligent Systems *Feb 2026 - May 2026*
Research on optimization and model merging with Dr. Antonio Orvieto. *Tübingen, Germany*

Software Engineer Intern, Amazon *Oct 2022 - Apr 2023*
Developed an internal tool using ML features to improve ad targeting on millions of users. *Berlin, Germany*

Research Assistant, Technical University of Munich *Feb 2022 - Aug 2022*
Research on uncertainty estimation and distribution shift with Dr. Bertrand Charpentier. *Munich, Germany*

Research Assistant, University of Pisa *Jan 2021 - Jan 2022*
Research on ML applied to real-world ischemic heart disease with Dr. Alessandro Pingitore. *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?. *International Conference on Learning Representations,* 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.

Alessandro Pingitore, **Chenxiang Zhang**, Cristina Vassalle, Paolo Ferragina, Patrizia Landi, Francesca Mastorci, Rosa Sicari, Alessandro Tommasi, Cesare Zavattari, Giuseppe Prencipe, and Alina Sîrbu. 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. *International Conference on Learning Representations 2023 Workshop on Pitfalls of limited data and computation for Trustworthy ML,* 2023.

✲ Miscellaneous

Languages Italian (Native), English (C1), Chinese (HSK3)
Hobbies Hiking, climbing, boardgames, gamedev, and cooking