Chenxiang ZHANG

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EDUCATION

Ph.D. in Machine Learning
Oct 2023 - Present

University of Luxembourg
Esch-sur-Alzette, Luxembourg

- Advisor: Jun Pang, Sjouke Mauw
- Research topics: robustness, privacy, and distribution shifts
- Teaching activities: preparation and grading for exercises and exams

M.Sc. in Computer Science and Artificial Intelligence
Sep 2020 - May 2023

University of Pisa
Pisa, Italy

- Grade: 110/110 cum laude (highest grade)
- Thesis: "Training, Architecture, and Prior for Deterministic Uncertainty Methods"
- Selected courses: machine learning, pattern recognition, natural language processing, distributed systems, information retrieval, algorithm engineering

B.Sc. in Computer Science
Sep 2017 - Jun 2020

University of Pisa
Pisa, Italy

- Grade: 91/110
- Thesis: "Technical Smart Compose"
- Selected courses: calculus, linear algebra, discrete math, probability theory, algorithms, and data structure, advanced programming, operating systems

High School Diploma
Sep 2012 - Jun 2017

Istituto Tecnico Industriale Statale E. Fermi
Lucca, Italy

EXPERIENCE

Software Engineer Intern
Oct 2022 - Apr 2023

Amazon Music Machine Learning
Berlin, Germany

- Developed a tool using ML features to improve the ads targeting of customers
- Measured the success impact by running an A/B test on millions of users

Research Visitor
Feb 2022 - Aug 2023

Data Analytics and Machine Learning Group, Technical University of Munich
Munich, Germany

- Studied the literature of uncertainty estimation and distribution shift generalization
- Provided practical guidelines on how to train the family of deterministic uncertainty methods
- Published a paper at ICLR 2023 Workshop on Trustworthy ML

Research Assistant
Jan 2021 - Dec 2021

Knowledge Discovery and Data Mining Group, University of Pisa
Pisa, Italy

- Developed an ML pipeline for Ischemic Heart Disease using real-world clinical data
- Provided ML interpretable results using clustering and feature importance
- Submitted a paper at International Journal of Cardiology

Publications

Charpentier, B., **Zhang, C.**, & Günnemann, S. (2023). Training, Architecture, and Prior for Deterministic Uncertainty Methods. *ICLR 2023 Workshop on Pitfalls of limited data and computation for Trustworthy ML.*

Pingitore, A., **Zhang, C.**, Vassalle, C., Ferragina, P., Landi, P., Mastorci, F., Sicaria, R., Tommasi, A., Zavattari, C., Prencipe, G., & Sîrbu, A. (2024). Machine learning to identify a composite indicator to predict cardiac death in ischemic heart disease. *International Journal of Cardiology, 131981.*

Honors & Awards

Tuscany regional council for study scholarship (tuition, housing, €8.000 award)	*2017 - 2022*
Innovation in rehabilitation enhancement and telemonitoring (€9.600 award)	*2021*
Erasmus program and youth support scholarship (€5.400 award)	*2021*
Erasmus program and youth support scholarship (€4.500 award)	*2019*
Participant for the regional Olympiad in Informatics	*2015*
Participant for the national competition in Math "Giochi di Archimede"	*2013*

Projects

LoopAI Competition | ⌂   *2021*
- Developed a data and ML pipeline to predict facial expressions using computer vision
- Recognized as one of the top performers and received a job offer

Game Development   *2017 - 2019*
- ⌘ Destiny of Khando - responsible for the full development (30k downloads)
- ⌘ Fall Royale - responsible for the design and art (100k downloads)

Miscellaneous

Programming	Python, Java, Kotlin, C++, MySQL
Software	Git, LaTeX, Linux, PyTorch, Lightning, Slurm, Unity3D
Languages	Italian (native), English (professional), Chinese (intermediate)
Hobbies	Walking, hiking, climbing, yoga, running, reading, and cooking