



Chenxiang Zhang

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EDUCATION

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 title: “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 title: “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 promotion targeting of customers
- Measured the success impact by running an A/B test on millions of users
- Participated in the reading group for recommendation systems

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 JACC: Advances

PUBLICATIONS

Training, Architecture, and Prior for Deterministic Uncertainty Methods

B. Charpentier, C. Zhang, S. Günnemann

ICLR 2023 Workshop on Pitfalls of limited data and computation for Trustworthy ML

Machine Learning to Identify an Indicator to Predict Cardiac Death in Ischemic Heart Disease

A. Pingitore, C. Zhang, C. Vassalle, P. Ferragina, P. Landi, F. Mastorci, R. Sicaria, A. Tommasi, C.

Zavattari, G. Prencipe, A. Sirbu






Preprint

May 29, 2023

HONORS & AWARDS

Tuscany regional council for study rights scholarship (tuition, housing, €8.000 award)	2017 - 2022
Innovation in rehabilitation enhancement and telemonitoring grant (€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

DUM Components 	2022
<ul style="list-style-type: none">• Combined two models using Pytorch Lightning framework• Developed and analyzed the results of several experiments using GPU clusters	
LoopAI Competition 	2021
<ul style="list-style-type: none">• 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	
Technical Smart Compose 	2020
<ul style="list-style-type: none">• Developed an ML word prediction application for domain-specific data• Deployed the model on backed using Flask and Heroku and created a frontend interface	
Game Development	2017 - 2019
<ul style="list-style-type: none">•  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, L ^A T _E X, Linux, Pytorch, Lightning, Slurm, Unity3D
Languages	Italian (native), English (professional), Chinese (intermediate)
Hobbies	Being in nature, hiking, climbing, yoga, running, reading, cooking