

Fang Xi Lin

Data Scientist | Ph.D. Physics



About me

I am a quick learner with a strong analytical eye for problem solving. My communication skills are shown by years of student leadership and teaching experience. Since I earned my Ph.D., I have been working passionately in the field of data science at different startups.

Contact

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🔗 quantumfx

Languages

🇨🇳 Mandarin – Native Language
🇬🇧 English – Fluent
🇫🇷 French – Fluent
🇩🇪 German – Basic Knowledge

Soft Skills and Strengths

Creativity Curiosity Self Confidence
Autonomy Adaptability Eye for Details
Creative Problem Solving Working Together
Learning Leadership Good Communication
Good Listener Patience

WORK EXPERIENCE

Apr 2023 –
Ongoing



Chief Data Scientist
Fanstories

📍 Toronto, Canada

Extracted, cleaned, and labeled user chat data from over 1M monthly users. Produced GPT-powered personalized content recommender R&D report assessing risk and feasibility. Developed, documented, and optimized recommender. Implemented SQL database for recommender.

Aug 2022 –
Mar 2023



Data Scientist
Blossom.team

📍 Toronto, Canada

Developed natural language processing (NLP) sentiment analysis model of coaching session transcripts. Analyzed 2+ years of coaching session transcripts for summarization and user progress in different topics. Developed and deployed model API using FastAPI. Implemented MongoDB data schema for structured data storage. Led development of AI Coach chatbot, providing affordable executive coaching to 10,000+ users.

Jan 2017 –
Feb 2023



Researcher in Astrophysics
University of Toronto

📍 Toronto, Canada

Canadian Institute for Theoretical Physics

Analyzed, simulated, and modeled TB-sized multi-dimensional data and time series data. Co-developed 'plind.py', a public Python package for a novel method for numerical integration. Published three papers lauded by thesis referee as "important contributions to the astrophysical literature of pulsars that will likely be cited for many years into the future".

EDUCATION

2016 – 2023



Ph.D. Physics
University of Toronto

📍 Toronto, Canada

Department of Physics

Performed research in theoretical astrophysics (see prev. section). Worked on ML projects as part of the HLML group.

2015 – 2016



MASt Applied Mathematics
Cambridge University

📍 Cambridge, UK

Department of Applied Math. and Theoretical Physics

2011 – 2014



B.Sc. Hon. Math & Physics
McGill University

📍 Montreal, Canada

Department of Physics

TECHNICAL PROFICIENCIES

**Programming
& databases**

Python, C, C++, R, Mathematica, MATLAB, git, FastAPI, CSS, php, bash, LaTeX, MongoDB, SQL, Amazon AWS, Docker

**Machine
Learning & AI**

Pytorch, Tensorflow, Keras, prompt engineering, large language models (LLMs), Langchain, HuggingFace, spaCy, nltk

**Mathematics
& Statistics**

Linear algebra, quantifying uncertainty, exploratory data analysis, predictive modeling, multivariate calculus

Data Analysis

Pandas, Jupyter, numpy, scipy, scikit-learn, matplotlib

CERTIFICATES



- Data Science (SciNet Consortium, 2021)
- Ontario Summer School Central 2019 (SciNet Consortium, 2019)
- Scientific Computing (SciNet Consortium, 2017)