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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- 📍 Toronto, Ontario, Canada
- 🌐 fangxilin.com
- 🔗 fangxilin
- 🎓 Google Scholar: Fang Xi Lin
- ⓞ 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   📍 Toronto, Canada
Fanstories

Extracted, cleaned, and labeled user chat data from over 1M monthly users. Produced GPT-powered personlized 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   📍 Toronto, Canada
Blossom.team

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   📍 Toronto, Canada
University of Toronto
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. Three first-authored papers of six total published are 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   📍 Toronto, Canada
University of Toronto
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, UK
Cambridge University
Department of Applied Math. and Theoretical Physics

2011 – 2014

B.Sc. Hon. Math & Physics   📍 Montreal, Canada
McGill University
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*)