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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- 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 Communicati					munication
	Goo	d Listener		Patience	

I WORK EXPERIENCE

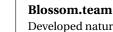
Apr 2023 -**Ongoing**

Chief Data Scientist Fanstories

? Toronto, Canada

Extracted, cleaned, and labeled user chat data from over 1M monthly users. Produced GPT-powered 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

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 CITA ICAT

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 Python, C, C++, R, Mathematica, MATLAB, git, FastAPI, CSS, php, & databases bash, LaTeX, MongoDB, SQL, Amazon AWS, Docker Machine Pytorch, Tensorflow, Keras, prompt engineering, large language models (LLMs), Langchain, HuggingFace, spaCy, nltk Learning & AI **Mathematics** Linear algebra, quantifying uncertainty, exploratory data analy-& Statistics sis, predictive modeling, multivariate calculus

CERTIFICATES



Data Analysis

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

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