Dongming Jin

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EXPERIENCE

Thumbtack May. 2022 - Present

Sr. Applied Scientist

- Pricing: Research and validate pricing algorithms as levers to steer between monetization and growth.
- Product X: Evaluate technology like chatGPT to prototype products to challenge the industrial status quo.
- Tooling: Facilitate and deploy state-of-art practices to enhance collaboration and productivity.

Miles Apr. 2019 - May 2022

Sr. Data Scientist

- Product: Built a recommender that drives 49x transactions, and launched a real-time fraud detection system.
- Analytics: Collaborated to identify growth opportunities and key business metrics, from pre-stage to series B.
- Statistics: Advised engineering, marketing, and product teams on sound data analytics and statistical practices.

MindWave Aug. 2018 - Feb. 2019

Founder

- DevOps: Built a prototype that integrated customized mic array into Raspberry Pi for audio processing, with beam-forming for sound tracking, demoed in YC Hackathon.
- Product: Architected a web server that combined customized reinforcement model on top of speech recognition from AWS to provide the best end-to-end solution, raised seed funding.
- Business Strategy:

Large Synoptic Survey Telescope Aug. 2016 - May 2018

Data Science Fellow

- @CalTech: Evaluated ML models to separate stars from galaxies, to understand the potential and limit of ML.
- @NOAO: Learned to develop data pipeline to process and manage 15TB/night data streaming.
- @STScI: Applied MCMC to optimize a Bayesian MAP model to solve star-galaxy problem 100X faster than RF.
- @UW Seattle: Developed features from multi-channel data to classify galaxy classification with data fusion.
- @UofPitt: Used Bokeh for interactive data visualization, to deliver valuable insights from analytics.

EDUCATION

University of Texas at Arlington Aug. 2014 – May 2018

Ph.D. in Physics; GPA: 4.00; Scharf Endowment Award

University of Texas at Brownsville Aug. 2012 – Jun. 2014

Master of Science in Physics; $\Sigma\Pi\Sigma$ member

Zhejiang University of Technology Aug. 2008 – Jun. 2011

Bachelor of Science in Applied Physics; Cum Laude

RESEARCH

Perspective BBHs in the Virgo Clusters with Gravitational Wave Aug. 2014 - May 2018

Ph.D. Dissertation *Advisor: Matthew Benacquista*

- Data Analysis: Estimated the distribution of globular clusters within 30 Mpc, predicted a lower bound of 0.6M.
- HPC: Simulated globular clusters using Monte Carlo method on TACC, a 100 TB library with 3240 models.
- Signal Process: Evolved 17M binary black hole models and discussed the perspectives for space detectors.

Publications: 2018 Jupyter as a Research Tool; The News that Shifts the Value of Cryptocurrency; The origin of the first neutron star; 2017 Gravitational Waves from BBHs in GCs; 2016 Dynamically formed Binary BHs from GCs; 2014 Globular Cluster Simulation by MOCCA

SKILLS

Data Science: Python, SQL, AB testing, Statistics, Monetary Strategy, Gamification, Deep Learning.

Development: Agile, AWS (SQS, Lambda, Redis, RDS, S3, ECS, VPC, ELB, AS, IAM), Datadog, Databricks