

Tom Tan

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EDUCATION

Duke University

Master of Science in Statistics

Durham, NC

Aug 2024 - May 2026

- **Coursework:** Machine Learning (Python), Bayesian Statistics, Database system(SQL), Casual Inference

Beijing Normal University

Bachelor of Science in Mathematics (GPA: 3.80 /4.00)

Beijing, CN

Sep 2020 - Jun 2024

- **Coursework:** Algorithms and Data Structure, Time Series Analysis, Experiment Design

PROFESSIONAL EXPERIENCE

Lenovo

Global Pricing Analyst

Morrisville, NC

Jan 2026 - Present

- **Business:** Supported Finance team in 420 global accounts repricing, acting with unprecedented increasing cost tape.
- **Automation:** Engineered repricing tracking tools for Sales team, using Power Automate to improve business efficiency.
- **Develop:** Prepared Rebate Dashboard for FPA team, using Power BI to automate rebate calculation process.
- **Deliver:** Presented repricing dashboard to senior leadership (VP & CFO), influencing financial planning.

ClearPath

AI Engineer

New York, NY

Aug 2025 - Dec 2025

- **Business:** Developed an AI Investment Chatbot for ideation, research, and implementation across the investment workflow.
- **Develop:** Built a Multi-Agent System to simulate a professional investment committee, orchestrating specialized agents for Market Research, Quantitative Analysis, and Risk Management with LangGraph and LangSmith.
- **Deliver:** Launched an interactive UI with Figma, providing the user with research and insights across each agent's area of specialization.

Tencent Company

Machine Learning Engineer

Shenzhen, China

May 2025 - Aug 2025

- **Business:** Support Database Team by building Chat BI Agent, empowering Sales/Ops team in data query and exploration.
- **Design:** Deployed a RAG + Multi-Agent framework with a three-layer architecture.
- **Develop:** Built specialized agents and analytical tools for Data Insight, SQL query and dynamic data visualization.
- **Deliver:** Incorporate ChatBI with Database website, streamlining the workflow for end-users to access real-time data.

PROJECT EXPERIENCE

Travelers Insurance Company

Travelers University Modeling Competition

Durham, NC

Oct 2024 - Dec 2024

- **Goal:** Developed **Predictive Model** to forecast **80,000** policyholder call counts - the number of times a policyholder is likely to call, optimizing resource allocation and enhancing cost-efficiency in call center operations.
- **Model:** Tackled the challenge of over **50%** zero call counts using **Zero-Inflated Poisson (ZIP)** model, employing a Bernoulli distribution to classify zeros as structural or random and a Poisson distribution to model random zero counts.
- **Results:** Selected **Generalized Linear Model (GLM)** over Boosting methods like **XGboost** and **LightGBM** for its interpretability, achieving a Mean Squared Error (MSE) of 25.02 and best Akaike Information Criterion (AIC) fit.

PUBLICATION

- **Tan, Z.**, Li, Z., Liao, Z. Estimating the Impact of Extreme Events on CPI: An EEMD-Fourier Based Method. Chinese Journal of Applied Probability and Statistics. Under Reviewed.
- Yang, K., Liu, T., Wang, Z., Liu, J., Shen, Y., Pan, X., Wen, R., Xie, H., Ruan, Z., **Tan, Z.**, Zhang, K. (2022). Classifying Drosophila olfactory projection neuron boutons by quantitative analysis of electron microscopic reconstruction. iScience, 104180. <https://doi.org/10.1016/j.isci.2022.104180>