Ron Taieb

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Professional Summary

Data Scientist and Ph.D. researcher specializing in statistics, machine learning and probabilistic modeling. Combines original ML research with industry experience in predictive modeling and production AI systems.

Professional Experience

Data Scientist Phoenix Financial, AI Transformation Aug 2026–Present

- Develop regression and classification models for insurance risk assessment, defining predictive targets and multi-head ML pipelines.
- Develop LLM/OCR pipelines for structured document extraction; collaborate on Snowflake training panels for ML.
- Collaborate with ML engineering and MLOps on AutoML batch workflows and production serving for insurance handlers; build internal LLM-based tools for data and business teams.

Research Assistant – Statistical Modeling Bank of Israel, Research Division Aug 2022–Aug 2026

- Developed and evaluated statistical models for economic analysis and forecasting, using regression, state-space methods and Kalman filtering.
- Applied generalized linear models with spatial dependence to economic data, modeling correlated observations.
- Built a forecasting API integrating 100+ scripts to automate statistical modeling and research workflows.
- Developed analytical workflows in Python, R, SQL and MATLAB, supporting economists and collaborating with data scientists on research.

Teaching Assistant – Statistics A & B for Economics Hebrew University of Jerusalem Oct 2023–Oct 2025

- Led weekly tutorials in probability and statistical inference for economics students, including R-based analysis.

Education

Ph.D. in Data Science Tel Aviv University Oct 2025–Present
M.Sc. in Statistics, with Honors Hebrew University of Jerusalem Dec 2023–Sep 2025
B.Sc. Statistics & Data Science; B.A. Economics Hebrew University of Jerusalem Oct 2020–Jul 2023

Research Experience

Generative Modeling & Statistical Representations (Ph.D.). Develop structure-aware generative methods combining statistical representations and conditional flow matching; work includes innovation-based recursive generation (manuscript under review) and probabilistic statistical-state conditioning (ongoing).

Probabilistic Graphical Modeling (M.Sc.). Developed a multilabel conditional random field framework for symbolic music, integrating graph-based features, pseudolikelihood estimation and statistical inference to study dependencies among musical transformations. Code.

Technical Skills

Statistics: Regression/GLMs, statistical inference, Bayesian methods, time-series analysis, ARIMA, state-space models, Kalman filtering, causal inference, A/B testing, empirical Bayes, composite likelihood, MCMC, spatial modeling.

ML & modeling: Classification, ensembles, SVMs, random forests, clustering, PCA/dimensionality reduction, neural networks, transformers, diffusion/flow matching, probabilistic graphical models, Fourier/wavelet analysis, splines, LLMs/RAG.

Programming & platforms: Python, R, SQL, PyTorch, scikit-learn, pandas, AWS, Snowflake, Git, Linux, Spark, OCR, Pinecone, Power BI; development tooling: Copilot, Cursor, Claude Code.

Additional Information

Honors: Dean's Excellence in Teaching (2025); Bank of Israel Research Division Employee Excellence (2024); IDF Honorable Soldier (2019).

Languages: Hebrew (native), English (fluent).

Violin performance (2011–Present): Active soloist and orchestral musician across Israel and internationally; performed for audiences of 10,000+. Performance and ensemble work sharpen analytical listening, communication and teamwork.