Thomas S. Lee

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SUMMARY

Data scientist and Ph.D. researcher experienced in quantitative analysis, experiment design, A/B testing, and causal inference using large and complex data sets. Proficient in Python and SQL, with a strong record of solving analytical problems, communicating actionable insights, and informing data-driven product decisions.

EDUCATION

The University of Texas at Austin   Austin, TX
Ph.D. in Finance   (Expected) Aug 2025

Korea University   Seoul, South Korea
B.B.A. | B.S. in Business Administration and Statistics   Feb 2018

EXPERIENCE

BGF Retail   Seoul, South Korea
Project Intern   Dec 2016 – Feb 2017
- Applied data science & analytics expertise by designing a store classification system using customer sales data and machine learning, helping managers quantify the impact of marketing investments through localized product optimization.
- Used unsupervised machine learning (e.g., K-means clustering) to uncover customer segments and support short- and long-term business objectives.
- Presented insights to senior leadership, supporting strategic decision making and cross-functional retail initiatives.

The University of Texas at Austin   Austin, TX
Graduate Researcher   Sep 2018 – Present
- Designed and executed experimentation and causal inference models (DiD, IV) using large and complex data sets (160M+ students) to evaluate the impact of capital spending.
- Applied data querying languages (SQL) and scripting languages (Python) to process large and complex data sets (110GB+ mutual fund, 40GB+ bond data), supporting experiment design and policy evaluation.
- Automated data mining and parsing of 1M+ bond features and 1.2M+ credit ratings to support presentation of data.
- Developed pricing models using quantitative analysis and statistical approaches to evaluate taxation effects on municipal bonds.
- Told data-driven stories and built credibility through structure and clarity while communicating insights at academic conferences (e.g., FMA 2024).

Texas Education Agency   Austin, TX
Independent Researcher   Feb 2022 – Present
- Solved analytical problems using quantitative approaches (DiD-based 2SLS IV) to quantify new opportunities and assess ecosystem impacts of state-led debt relief programs.
- Partnered with data engineering tools (Stata, Python) to analyze large and complex data sets and monitor key metrics showing a 0.12 SD increase in math scores per $1,000/pupil capital investment.

TECHNICAL SKILLS

- *Programming Languages:* Python, SQL, Stata, SAS, R, Excel
- *Quantitative Methods:* Causal inference, A/B testing, Statistics, Experimental design, Panel data analysis, Time-series modeling, Machine learning, Forecasting, Data mining, Unstructured data analysis