Thomas S. Lee

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SUMMARY

Data scientist transitioning from academia with expertise in Python, SQL, and large-scale data analysis. Skilled in A/B testing, causal inference, experimental design, and statistical modeling. Strong communicator with a background in applied econometrics and machine learning.

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 and analytics expertise to design a store classification system using customer sales data and machine learning (e.g., K-means clustering), helping managers improve customer experience through localized product optimization.
- Presented data-driven insights and recommendations to senior leadership, supporting strategic decision making and cross-functional initiatives.

The University of Texas at Austin — Austin, TX
Graduate Researcher — Sep 2018 – Present

- Led multiple end-to-end data-driven projects using experimental design, A/B testing frameworks, and causal inference models to evaluate policy impacts.
- Analyzed large and complex data sets (e.g., 110GB+ CRSP, 40GB+ municipal bonds) using Python and SQL, ensuring model accuracy and scalability.
- Automated data collection and deployed unstructured data analysis techniques to extract insights from 1M+ bond features and credit ratings.
- Translated complex analytical findings for non-technical audience through presentations at academic conferences (e.g., FIRS 2025).

Texas Education Agency — Austin, TX
Independent Researcher — Feb 2022 – Present

- Designed advanced econometric models including 2SLS IV and Difference-in-Differences (DiD) to evaluate state-led debt relief programs.
- Conducted large-scale data analysis on longitudinal education datasets (160M+ records), using Python and Stata to derive insights on investment outcomes.
- Applied experimentation techniques to identify impact of $1,000/pupil capital investment on math score improvements (+0.12 SD).

TECHNICAL SKILLS

- *Programming Languages:* Python, SQL, Stata, SAS, R, Excel
- *Quantitative Methods:* Statistical modeling, Machine learning, A/B testing, Optimization models, Experimentation techniques, Causal inference, Unstructured data analysis