Curriculum Vitae

Thien Minh Le, Ph.D.

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EDUCATION

- **Michigan State University**, East Lansing, Michigan, USA, 05/2020
  Ph.D. in **Statistics**
  Dissertation Topic: "Estimation and Statistical Inference for Network Structures"
  Advisor: Dr. Ping-Shou Zhong
  Committee members: Dr. Hira Koul, Dr. Lyudmila Sakhanenko, and Dr. Qing Lu
- **University of Science**, Ho Chi Minh City, Vietnam, 11/2011
  M.Sc. in **Probability**
- **Quy Nhon University**, Binh Dinh Province, Vietnam, 06/2008
  B.S. in **Mathematics Education**

RESEARCH INTERESTS

Network Sciences, Mathematical Modeling, Machine Learning, Statistical Consulting

ACADEMIC POSITIONS

- **University of Tennessee at Chattanooga (UTC)**, Chattanooga, Tennessee, USA
  Assistant Professor *at Department of Mathematics,* 07/2023 – present
- **Harvard T.H. Chan School of Public Health**, Boston, Massachusetts, USA
  Postdoc Fellow *at Department of Biostatistics,* 06/2020 – 06/2023
  Advisor: Professor Jukka-Pekka Onnela
- **Michigan State University (MSU)**, East Lansing, Michigan, USA
  Statistical Consultant *at Center for Statistical Training and Consulting,* 08/2019 – 05/2020
- **University of Natural Resources and Environment**, Ho Chi Minh City, Vietnam (HCMUNRE)
  Lecturer at Department of Fundamental Science, 09/2009 – 07/2014

ACTIVE GRANTS FUNDED/SUBMITTED

1. NSF Faculty Early Career Development Program Grant (CAREER), 08/2026 – 07/2031
   Title: "CAREER: Statistical Inference and Prediction in Network-Based Models of Complex Systems."
   Role: **PI**. Amount Request: 734,355 USD. Submitted: July 2025.

HONORS/AWARDS

1. Third prize of the 2022 Research Symposium of Harvard T.H. Chan School of Public Health, 2022
2. MSU College of Natural Science Recruiting Fellowship (Amount: 16,000 USD), 2014–2016

MENTORS/ SERVICES/ LEADERSHIPS

- Mentorship and Advising

    1. Advisor (co-advised with Dr. Jin Wang): Chinthaka Weerarathna, M.S. student (Jan 2024–Present)
    2. Advisor: Israel Adikah, Ph.D. student (Aug 2025–Present)
    3. Ph.D. Thesis Committee Member: Jacob Derrick (Successful Defense: June 2025)
    4. Ph.D. Thesis Committee Member: Megan McCoy (Defense: October 2025)

- Services at UTC

    1. **Reviewer** for UT Health Science Center, 01/2024–Present
    2. **Committee Member** at UTC Budget and Economic Status Committee, UTC Maths Department Advisory Committee, 08/2024–07/2025.

- Services outside UTC

    1. **Session chair** for Network Science in Public Health Session at 18th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics (CFE-CMStatistics 2024), King's College London, December 14-16, 2024.
    2. **Reviewer** for Academic Journals: Journal of Business & Economic Statistics, Computational Statistics & Data Analysis, Scientific Reports
    3. **Reviewer** for Conferences/Programs: AAAI 2024 Symposium on Machine Intelligence for Equitable Global Health at Old Dominion University, 11/2024; STAT START Summer 2023 program at Harvard T.H. Chan School of Public Health, 06/2023; NAFOSTED Conference on Information and Computer Science at Ho Chi Minh City, Vietnam, 11/2022; Posters Award Section of Network Science 2021 Conference, Indiana, U.S.A, 06/2021

- Leaderships

    1. **President** of Association Vietnamese Scholars and Students (Members: 40) at MSU, Michigan, USA, 09/2016 – 09/2017

PROFESSIONAL MEMBERSHIPS

- American Statistical Association

TALKS/WORKSHOPS/CONFERENCE ACTIVITIES

1. "Temporal Configuration Model: Statistical Inference and Spreading Processes," talk at SIAM-SEAS 2025, University of Tennessee at Knoxville, March 2025.
2. "Connecting Mass-action Models and Network Models for Infectious Diseases," talk at 18th International Joint Conference CFE-CMStatistics, King's College London, December 2024.
3. "Framework for Assessing and Easing Gloabal COVID-19 Travel Restriction," talk at Harvard T.H. Chan School of Public Health Research Symposium, Harvard University, 02/2022
4. "A Short Tutorial on Approximate Bayesian Computation and its Applications for Infectious Disease Models," workshop at Center for Statistical Training and Consulting, MSU, 01/2022

GRANTS/PUBLICATIONS/ SUBMISSIONS

- *Published/Accepted*

    1. **Le, T.M.**, Zhong, P.S. and Leng, C. *Universally Consistent Tests for the Graph of a Gaussian Graphical Model. To be appeared in Statistica Sinica.* Accepted, 2025.
    2. **Le, T.M.** and Onnela, J.P. *Connecting Mass-action Models and Network Models for Infectious Diseases. PLOS Computational Biology, 2025.*

3. **Le, T.M.**, Raynal, L., Talbot, O., Hambridge, H., Drovandi, C., Mira, A., Mengersen, K. and Onnela, J.P. *Framework for Assessing and Easing Global COVID-19 Travel Restrictions. Nature, Scientific Reports*, 2022.
4. **Le, T.M.**, Raynal, L., Talbot, O., Hambridge, H., Drovandi, C., Mira, A., Mengersen, K. and Onnela, J.P. *Finding a Balance Between Public Health and Global Airline Travel. Springer Nature, Health Care and Nursing Research Community Blog*, 2022.
5. **Le, T.M.** and Zhong, P.S High-dimensional Precision Matrix Estimation with a Known Graphical Structure . *Wiley, Stat*, 2021.
6. Fiebig, A., Vrentas, C.E. **Le, T.M.**, Huebner, M., Boggiatto, P.M., Olsen, S.C. and Crosson, S. Quantification of Brucella abortus population structure in a natural host. *Proceedings of the National Academy of Sciences*, 2021
7. Hankenson, F.C., Kim, J., **Le, T.M.**, Lawrence, F., and DelValle, J.M. Guidance on Skin Preparation Methods and Thermal Support for Surgery in Laboratory Mice and Rats . *Journal of the American Association for Laboratory Animal Science*, 2021

- *Submitted*

1. **Le, T.M.**, Hambridge, H.[1], and Onnela, J.P. Temporal Configuration Model: Statistical Inference and Spreading Processes. [1] co-first author. In 2nd revision.

- *Submitted but not funded/accepted*

1. NSF Research Training Grant (08/2025 – 07/2030). **Title**: "RTG: Mathematics, Computation, and Cybersecurity in Public Health". PI: Dr. Jin Wang. Role: **Investigator**. Amount Request: 2,070,171 USD. Submitted: August 2024.
2. Tennessee Department of Transportation Research Grant (08/2024 – 07/2026). **Title**: "Multiobjective Optimization for Mobility and Conservation". PI: Dr. Lakmali Weerasena. Role: **Co-PI**. Amount Requested: 217,301 USD. Submitted: April 2024.
3. NSF Research Grant (08/2024 – 07/2029). **Title**: "A Joint Computational and Experimental Investigation for the Transmission Dynamics of Frogeye Leaf Spot". PI: Dr. Jin Wang. Role: **Co-PI**. Amount Requested: 1,873,442 USD. Submitted: November 2023.
3. UTC CEASE Grant (01/2024 – 01/2026). **Title**: "Multiobjective Optimization for Mobility and Conservation". PI: Dr. Lakmali Weerasena. Role: **Co-PI**. Amount Requested: 125,000 USD. Submitted: October 2023.
4. NSF Research Training Grant (08/2024 – 07/2029). **Title**: "Collaborative Research: RTG: Mathematics and Computation in Public Health". PI: Dr. Jin Wang. Role: **Investigator**. Amount Requested: 1,942,764 USD. Submitted: August 2023.
5. Hong, H.G., Ling, W., **Le, T.M.**, An, H.S., Oberst, K., and Annis, A.M. Quantile regression exploration of heterogeneous associations between sociodemographics, multimorbidities, and functional limitations among older adults, NHANES, 2007-2016. Submitted: May 2021.

TEACHING

- **Instructor at UTC:** Mathematical Statistics, Independent Study (Topic: Principal Component Analysis in R), Introduction to Probability, Introductory Statistics, Fall 2023 - Fall 2025
- **Teaching Assistant at MSU:** Stochastic Models in Finance, Mathematical Statistics, Statistics for Engineering, Fall 2014 - Spring 2018
- **Instructor at HCMUNRE:** Statistics for Engineering, Multivariable calculus, Single Variable Calculus, Linear Algebra, Fall 2009 - Spring 2014

Books, Training Materials, and Packages

1. *R package* CONETTravel, 04/2021

2. *Data Visualization* and *Initial Data Analysis* workshop materials preparation for the R-certificate program at MSU Center for Statistical Training and Consulting, 01/2020.

COMPUTER SKILLS

Parallel Computing, R, Python, MATLAB, SAS, Minitab