

CURRICULUM VITA

Gengxin Li

**Department of Mathematics and Statistics
University of Michigan-Dearborn
4901 Evergreen Road Dearborn, MI 48128
Tel: 313-593-5189, Email: gengxinl@umich.edu
Website: <http://ligengxin.weebly.com>**

1. Education

- Ph.D.–Department of Statistics and Probability** **2010**
Michigan State University, East Lansing, MI
- M.S.–Department of Statistics and Probability** **2005**
Michigan State University, East Lansing, MI

2. Employment History

- Associate Professor** **2019 to present**
Department of Mathematics and Statistics
University of Michigan - Dearborn, Dearborn, Michigan
- Associate Professor** **2018 to 2019**
Department of Mathematics and Statistics
Wright State University, Dayton, Ohio
- Assistant Professor** **2012 to 2018**
Department of Mathematics and Statistics
Wright State University, Dayton, Ohio

3. Selected Publications

- [1] Dawson Kinsman, Jian Hu, Zhi Zhang, **Gengxin Li**. The New Empirical Bayes Models to Jointly Analyze Multiple RNA-sequencing Data in a Hypophosphatasia Disease Study. *Genes*, 2024, 15, 407. <https://doi.org/10.3390/genes15040407>.
- [2] Amanda Ghannam, Victoria Hahn, Jie Fan, Stefanie Tasevski, Sara Moughni, **Gengxin Li**, Zhi Zhang. Sex-specific and cell-specific regulation of ER stress and neuroinflammation after traumatic brain injury in juvenile mice. *Experimental Neurology*, 2024 Jul: 377: 114806. doi: 10.1016/j.expneurol.2024.114806.
- [3] **Gengxin Li**, Lin Hou, Xiaoyu Liu, Cen Wu. A weighted empirical Bayes risk prediction model using multiple traits. *Statistical Applications in Genetics and Molecular Biology* 2020, 19(3): 20190056.
- [4] Fei Zhou, Jie Ren, **Gengxin Li**, Yu Jiang, Xiaoxi Li, Weiqun Wang, Cen Wu. Penalized variable selection for lipid-environment interactions in a longitudinal lipidomics study. *Genes (Basel)*. 2019, Dec 3;10(12).
- [5] Becka Wagner, Cindra Holland, Rosalie Mainous, William Matcham, **Gengxin Li**, Jessica Luiken. Differences in perceptions of incivility between disciplines in higher educations. *Nurse Educator* 2019, 44(5):265-269.
- [6] Kathleen Harrison, Eric Romer, Jonathan Weyerbacher, Jesus Ocana, Ravi Sahu, Robert Murphy, Lisa Kelly, Townsend Smith, Christine Rapp, Christina Borchers, David Cool, **Gengxin Li**, Richard Simman, Jeffrey Travers. Enhanced Platelet-activating Factor synthesis facilitates acute and delayed effects of ethanol intoxicated thermal burn injury. *Journal of Investigative Dermatology*, 2018, 138(5):S166.
- [7] Sridevi Gutta, Nadja Grobe, Meenasri Kumbaji, Hassan Osman, Mohammad Saklayen, **Gengxin Li**, Khalid Elased. Increased urinary angiotensin converting enzyme 2 and neprilysin in type 2 diabetic patients. *American Journal of Physiology-Renal Physiology*, 2018 Aug 1; 315(2): F263-F274.

- [8] Sharon Farra, Elaine Miller, Matthew Gneuchs, Nathan Timm, **Gengxin Li**, Ashley Simon, Whitney Brady. Evacuation performance evaluation tool. *American Journal of Disaster Medicine*, 2016, 11(2).
- [9] **Gengxin Li**, Yuehua Cui. Assessing statistical significance in variance components linkage analysis. *Journal of Statistical Planning and Inference*, 2016, 178: 70-83.
- [10] **Gengxin Li**. A new model calling procedure for Illumina BeadArray Data. *BMC Genetics*, 2016, 17:90.
- [11] Ravi P Sahu, Kathleen A Harrison, Jonathan Weyerbacher, Robert C Murphy, Raymond L Konger, Joy Elizabeth Garrett, Helen Jan Chin-Sinex, Michael Edward Johnston II, Joseph R Dynlacht, Marc Mendonca, Kevin McMullen, **Gengxin Li**, Dan F Spandau, Jeffrey B Travers. Radiation therapy generates Platelet-activating Factor agonists *Oncotarget*. 2016, 7(15): 20788-20800.

4. Grants

- [1] “Machine learning misclassification error detection to enhance safety of Level 3 autonomous driving”, \$199,948.00, Jian Hu (PI), **Gengxin Li** (co-PI), Ford Alliance, 2023 - 2025.
- [2] “Deep learning misclassification error detection to enhance the safety of risk prediction in genomic studies”, \$29,865.00, **Gengxin Li** (PI), Jian Hu (co-PI), Zhi Zhang (co-PI). Thematic Research Planning (FY23 Fall Cycle), University of Michigan Dearborn, January 16, 2023 - January 15, 2024.
- [3] “Azure cloud computing in multivariate statistics”, \$11,000, **Gengxin Li** (PI), Jing Zhao (co-PI). Azure Cloud Credits, Microsoft, WA, 2020-2021.
- [4] “Statistical modeling of enhancing genetic effects by integrating multiple data for complex diseases”, \$7,000, **Gengxin Li** (PI), Zhi Zhang (co-PI). CASL Faculty Summer Research Grant, University of Michigan Dearborn, MI, 2020-2021.
- [5] “A statistical model incorporating genetic variant annotation information in a multiple traits design”, \$900, **Gengxin Li** (PI). Faculty Professional Development Grant, University of Michigan Dearborn, MI, 2020.

5. Student Advising

- Ming Gao: Machine learning misclassification error detection to enhance safety of Level 3 autonomous driving, Winter 2024 - present
- Dawson Kinsman: The New Empirical Bayes Models to Jointly Analyze Multiple RNA-sequencing Data in a Hypophosphatasia Disease Study, May 2023 - March 2024
- Danielle N. Mulka: Assessing the correlation between percentage of tree canopy coverage and various factors in Wayne county, MI, Winter 2021
- Wenjue Li: A Quantitative Analysis of Undergraduate Students Enrollment Data to Predict Student Success, Winter 2020 - Summer 2020
- Aishwary Pawar: College Enrollment Trends and Pattern Evaluation, “A Data Analytic Investigation”, Winter 2021 - Summer 2021

6. Service Activities

- CASL Scholarship Committee (Member), Fall 2019 to Present)
- CASL 4CR Conversion Committee (Member), Winter 2022 to Fall 2023
- CASL Curriculum Committee (Member), Winter 2025
- ACM Scholarship Committee (Member), Winter 2020 to present
- ACM Admissions Committee (Member), Summer 2020 to present