MINH H. PHAM

(813) 394-2044 ♦ minhpham@mail.usf.edu https://minhhpham.github.io

EDUCATION

University of South Florida, Tampa, FL Ph.D. in Computer Science (GPA 4.0) University of South Florida, Tampa, FL Master of Arts in Statistics (GPA 3.97) Thesis: Signal Detection of Adverse Drug Reaction using the Adverse Event Reporting System: Literature Review and Novel Methods University of South Florida, Tampa, FL 5/2016

Thesis: Stochastic Dynamic Modeling of Unemployment-Inflation Processes: State, Parameter and Forecasting

• Bachelor of Arts in Statistics (GPA 3.97, USF Dean's List, Honor College, and Summa Cum Laude)

WORKING EXPERIENCE

Research Assistant, University of South Florida- Tampa, FL

8/2019 - Now

- System Administrator for a high-performance supercomputer cluster
- Develop web servers (both back-end and front-end)

Research Associate, Center for Urban Transportation Research - Tampa, FL

5/2018 - 5/2019

- · Archive real-time transit data using Python and MongoDB on Linux cloud computing
- Predict arrival time with machine learning

Graduate Assistant, Statistics Coordinator - USF Academic Success Center – Tampa, FL

12/2016 - 5/2018

- Setup and maintained the department's database from unstructured and diverse data sources
- Maintained and improved the department's automatic programs using Python

Actuarial Intern – Group, Voluntary & Worksite Benefit

Metlife – Bridgewater, NJ

5/2016 - 12/2016

- Projected cash and values of business with statistical models
- Automated a project using SQL, reduced calculation time from hours to 5 minutes
- Modeled sales opportunities in the market by analyzing big databases

Actuarial Intern - Market Risk & Derivative Strategies

Metlife – Morristown, NJ

5/2015 - 8/2015

- Used statistical models to simulate the financial market to test the corporation's endurance against global shocks
- Main developer of a new automatic program using R and SQL
- Documented the automatic process for cross-departmental use

PUBLICATIONS

Journal Articles

Y. Hao, X. Yuan, J. Yan, **M. Pham**, D. Rohlsen, P. Qian, F. Cheng, and Y. Wang, "Metabolomic Markers in Tongue-Coating Samples from Damp Phlegm Pattern Patients of Coronary Heart Disease and Chronic Renal Failure," *Disease Markers*, 2019.

- Z. Tang, **M. Pham**, Y. Hao, F. Wang, D. Patel, L. Jean-Baptiste, L. Fan, W. Wang, Y. Wang, and F. Cheng, "Sex, Age, and BMI Modulate the Association of Physical Examinations and Blood Biochemistry Parameters and NAFLD: A Retrospective Study on 1994 Cases Observed at Shuguang Hospital, China," *BioMed Research International*, 2019.
- A. B. Lester, P. L. Winters, and **M. Pham**, "Segment: Applicability of an Existing Segmentation Technique to Transportation Demand Management Campaigns in the United States," *Transportation Research Record: Journal of the Transportation Research Board*, vol. 2673, no. 9, pp. 227–239, 2019.
- Y. Hao, F. Cheng, **M. Pham**, H. Rein, D. Patel, Y. Fang, Y. Feng, J. Yan, X. Song, H. Yan, and Y. Wang, "A Noninvasive, Economical, and Instant-Result Method to Diagnose and Monitor Type 2 Diabetes Using Pulse Wave: Case-Control Study," *JMIR mHealth and uHealth*, vol. 7, no. 4, 2019.
- Y. Lu, A. Ramachandra, **M. Pham**, Y.-C. Tu, and F. Cheng, "CuDDI: A CUDA-Based Application for Extracting Drug-Drug Interaction Related Substance Terms from PubMed Literature," *Molecules*, vol. 24, no. 6, p. 1081, 2019.
- **M. Pham**, F. Cheng, and K. Ramachandran, "A Comparison Study of Algorithms to Detect Drug–Adverse Event Associations: Frequentist, Bayesian, and Machine-Learning Approaches," *Drug Safety*, vol. 42, no. 6, pp. 743–750, 2019.
- **M. H. Pham**, C. Tsokos, and B.-J. Choi, "Maximum Likelihood Estimation for the Generalized Pareto Distribution and Goodness-of-Fit Test with Censored Data," *Journal of Modern Applied Statistical Methods*, vol. 17, no. 2, 2019.
- **M. H. Pham** and R. C. Kafle, "Competing Risks Analysis of African American Breast Cancer Patients," *Advances in Breast Cancer Research*, vol. 06, no. 01, pp. 28–41, 2017.

Conference Proceedings

- J. Adorno Nieves, **M. Pham,** S. Barbeau, A. Labrador (2019). Scalable Real-Time Transit Data Archiving: A Framework for Performance Assessment and Machine Learning Prediction. In *Transportation Research Board Conference Proceedings* (No. 55)
- **M. Pham**, J. Lin, and Y. Zhang, "Diagnosing Voice Disorder with Machine Learning," In *IEEE International Conference on Big Data*, 2018.

Thesis

M. H. Pham. (2018). *Signal Detection of Adverse Drug Reaction using the Adverse Event Reporting System: Literature Review and Novel Methods* (Master Thesis, University of South Florida).

INVITED REVIEWER FOR:

- Scientific Reports (Nature publication company)
- Springer Nature

PRESENTATIONS

• Transportation Research Board 98th Annual Meeting (Conference)

Title: "Scalable Real-Time Transit Data Archiving: A Framework for Performance Assessment and Machine Learning Prediction"

• Transportation Research Board 98th Annual Meeting (Conference)

1/2019

1/2019

Title: "SEGMENT: Applicability of an Existing Segmentation Technique to Transportation Demand Management (TDM) Campaigns In The United States"

• Frontiers of Statistics, Tampa, Florida (Conference)

5/2018

Title: "Literature Review and Novel Methods in Drug - Adverse Event Association Study"

Archive: https://minhhpham.github.io/presentations/frontiers-of-stats2018.html

• Tampa R Users Group (Meetup)

6/2018

12/2018

2014

Title: "Machine Learning in R"

Archive: https://github.com/TampaUseRs/TampaUseRs/tree/master/meetups/20180619-machine-learning

COMPUTER SKILLS

I am very familiar with the followings.

Programming

• Python, R: performed most projects and research with R and Python, gave a presentation about machine learning with R

• Travel award of \$1000 from The Center for Transportation, Equity, Decisions and Dollars

• Bronze Medal, Florida State Closed Tournament, Central Florida Table Tennis

• C/C++, CUDA: trained by the Ph.D. program

Database Management

• PostgreSQL, SQL Server, MS Access, MongoDB, IBM Netezza

Cloud Computing

• Amazon Web Service, DigitalOcean

AWARDS & HONORS

• IEEE Big Data 2018 Challenge: 8th place out of 109 teams from 27 countries	11/2018
Southeastern Actuaries Conference (SEAC) Scholarship	: 8 th place out of 109 8/2017
Network-centric Stochastic Hybrid Dynamic Time-event Process Modeling Scholarship Network-centric Hybr	5/2016
 USF Dean's List, Graduation with Honor and Summa Cum Laude 	
LEADERSHIPS & ACTIVITIES	
• Silver medal, 2018 Sunshine State Games Table Tennis	2018
 Silver medal, Florida Orange Blossom Table Tennis Series Summer Classic Open 2018 	2018
Intramural Champion, USF Intramural 2015 and 2017	2015, 2017

• President, Actuarial Society at USF 12/2014 – 5/2016

• **SQL & Python Teacher**, Actuarial Society at USF 1/2017 – 5/2018