

# MINH H. PHAM

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<https://minhhpham.github.io>

Most updated version of this CV is at <https://minhhpham.github.io/CV>

## WORKING EXPERIENCE

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**Research Assistant, 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

**Research Assistant, USF Department of Pharmaceutical Science** – Tampa, FL 5/2018 – 8/2018

- Analyze bio-chemical and pharmaceutical data

**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

## EDUCATION

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**University of South Florida, Tampa, FL** 5/2024

- Ph.D. in Computer Science

**University of South Florida, Tampa, FL** 5/2018

- Master of Arts in Statistics (GPA 3.97)

**University of South Florida, Tampa, FL** 5/2016

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

## PUBLICATIONS

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### Journal Articles

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

Tang, Z., **Pham, M.**, Hao, Y., Wang, F., Patel, D., Jean-Baptiste, L., ... & Cheng, F. (2019). 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.

Lester, A. B., Winters, P. L., & **Pham, M.** (2019). Segment: Applicability of an Existing Segmentation Technique to Transportation Demand Management Campaigns in the United States. *Transportation Research Record*, 0361198119844248.

Hao Y, Cheng F, **Pham M**, Rein H, Patel D, Fang Y, Feng Y, Yan J, Song X, Yan H, Wang Y (2019). A Noninvasive, Economical, and Instant-Result Method to Diagnose and Monitor Type 2 Diabetes Using Pulse Wave: Case-Control Study. *JMIR mHealth and uHealth* 2019;7(4):e11959. doi: <https://doi.org/10.2196/11959>

Lu, Y., Ramachandra, A. C. V., **Pham, M.**, Tu, Y. C., & Cheng, F. (2019). CuDDI: A CUDA-Based Application for Extracting Drug-Drug Interaction Related Substance Terms from PubMed Literature. *Molecules*, 24(6), 1081.

**Pham, M.**, Cheng, F., & Ramachandran, K. (2019). A Comparison Study of Algorithms to Detect Drug–Adverse Event Associations: Frequentist, Bayesian, and Machine-Learning Approaches. *Drug safety*, 1-8. doi: <https://doi.org/10.1007/s40264-018-00792-0>

**Pham, M. H.**, Tsokos, C., & Choi, B.-J. (2018). Maximum likelihood estimation for the generalized Pareto distribution and goodness-of-fit test with censored data. *Journal of Modern Applied Statistical Methods*, 17(2), eP2608. doi: 10.22237/jmasm/1553261471

**Pham, M. H.**, & Kafle, R. C. (2016). Competing Risks Analysis of African American Breast Cancer Patients. *Advances in Breast Cancer Research*, 6(01), 28.

**Pham, M. H.** (2014) "Survival Analysis - Breast Cancer," Undergraduate Journal of Mathematical Modeling: One + Two: Vol. 6: Iss. 1, Article 4. DOI: <http://dx.doi.org/10.5038/2326-3652.6.1.4860>.

## Conference Proceedings

Adorno Nieves J., **Pham M.**, Barbeau S., Labrador A. (2019). Scalable Real-Time Transit Data Archiving: A Framework for Performance Assessment And Machine Learning Prediction. In *Transportation Research Board Conference Proceedings* (No. 55)

**Pham M.**, Lin J., Zhang Y. (2018). Diagnosing Voice Disorder with Machine Learning. In *Proceedings of 2018 IEEE International Conference on Big Data*.

## Thesis

**Pham, M. H.** (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:

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- Scientific Reports (Nature publication company)
- Springer Nature

## PRESENTATIONS

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| • <b>Transportation Research Board 98th Annual Meeting (Conference)</b><br>Title: “Scalable Real-Time Transit Data Archiving: A Framework for Performance Assessment and Machine Learning Prediction”   | 1/2019 |
| • <b>Transportation Research Board 98th Annual Meeting (Conference)</b><br>Title: “SEGMENT: Applicability of an Existing Segmentation Technique to Transportation Demand Management (TDM) Campaigns In The United States”   | 1/2019 |
| • <b>Frontiers of Statistics, Tampa, Florida (Conference)</b><br>Title: “Literature Review and Novel Methods in Drug - Adverse Event Association Study”<br>Archive: <a href="https://minhhpham.github.io/presentations/frontiers-of-stats2018.html">https://minhhpham.github.io/presentations/frontiers-of-stats2018.html</a> | 5/2018 |
| • <b>Tampa R Users Group (Meetup)</b><br>Title: “Machine Learning in R”<br>Archive: <a href="https://github.com/TampaUseRs/TampaUseRs/tree/master/meetups/20180619-machine-learning">https://github.com/TampaUseRs/TampaUseRs/tree/master/meetups/20180619-machine-learning</a>   | 6/2018 |

## COMPUTER SKILLS

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I am very familiar with the following.

### Programming

- R: performed most projects and research with R, gave a presentation about machine learning with R
- Python, Java, C, Bash (Unix shell): use daily at work

### Databases Management

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

### Cloud Computing

- Amazon Web Service, DigitalOcean

## AWARDS & HONORS

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| • Travel award of \$1000 from The Center for Transportation, Equity, Decisions and Dollars | 12/2018 |
| • IEEE Big Data 2018 Challenge: 8 <sup>th</sup> place out of 109 teams from 27 countries   | 11/2018 |
| • Southeastern Actuaries Conference (SEAC) Scholarship                                     | 8/2017  |
| • Network-centric Stochastic Hybrid Dynamic Time-event Process Modeling Scholarship        | 5/2016  |
| • USF Dean’s List, Graduation with Honor and Summa Cum Laude                               |         |

## LEADERSHIPS & ACTIVITIES

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| • <b>Silver medal</b> , 2018 Sunshine State Games Table Tennis                              | 2018             |
| • <b>Silver medal</b> , Florida Orange Blossom Table Tennis Series Summer Classic Open 2018 | 2018             |
| • <b>Intramural Champion</b> , USF Intramural 2015 and 2017                                 | 2015, 2017       |
| • <b>Bronze Medal</b> , Florida State Closed Tournament, Central Florida Table Tennis       | 2014             |
| • <b>President</b> , Actuarial Society at USF   | 12/2014 – 5/2016 |
| • <b>SQL &amp; Python Teacher</b> , Actuarial Society at USF                                | 1/2017 – 5/2018  |