

MINH H. PHAM

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<https://minhhpham.github.io>

QUALIFICATION SUMMARY

- 3 years of working experience in programming and databases with expertise in R, Python, and SQL
- Experience with statistical research with 3 completed publications and 4 under review

WORKING EXPERIENCE

- Research Associate, Center for Urban Transportation Research** – Tampa, FL 5/2018 – Present
- Archive real-time transit data using Python and MongoDB on Linux cloud computing
 - Predict bus arrival time with machine learning
- Research Associate, 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
- Peer Leader**
USF Mathematics & Statistics Department – Tampa, FL 8/2013 – 5/2016
- Tutor**
Academic Success Center – Tampa, FL 1/2014 – 5/2016

PUBLICATIONS

Journal Articles

Pham, M. H., Tsokos, C. P., Choi, B. (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).

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>.

Accepted, In Press

Pham, M. H., Cheng, F., Ramachandran, K. M. (2018), A Comparison Study on Algorithms to Detect Drug-Adverse Event Associations: Frequentist, Bayesian, and Machine Learning Approaches. *Drug Safety*. DOI: 10.1007/s40264-018-00792-0

Journal Articles Under Review

Lester, A., **Pham, M. H.**, Winters, P. L. SEGMENT: Applicability Of An Existing Segmentation Technique To Transportation Demand Management (TDM) Campaigns In The United States.

Hao Y., Yan J., Rein H., **Pham M.**, Fang Y., Feng Y., Song X., Yan H., Wang Y., Cheng F. A Noninvasive, Economical, and Instant-Result Tool to Accurately Diagnose Type 2 Diabetes Using Pulse Wave.

Hao Y., Yan J., **Pham M.**, Rohlsen D., Yuan X., Qian P., Feng C., Wang Y. Metabolomics study of tongue coating samples from dampness syndrome patients of coronary heart disease and chronic renal failure.

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)..

PRESENTATIONS

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| <ul style="list-style-type: none"> • Transportation Research Board 98th Annual Meeting (Conference)
Title: "Scalable Real-Time Transit Data Archiving: A Framework for Performance Assessment and Machine Learning Prediction" | 1/2019 |
| <ul style="list-style-type: none"> • Transportation Research Board 98th Annual Meeting (Conference)
Title: "SEGMENT: Applicability of an Existing Segmentation Technique to Transportation Demand Management (TDM) Campaigns In The United States" | 1/2019 |
| <ul style="list-style-type: none"> • Frontiers of Statistics, Tampa, Florida (Conference)
Title: "Literature Review and Novel Methods in Drug - Adverse Event Association Study"
Archive: https://minhhpham.github.io/presentations/frontiers-of-stats2018.html | 5/2018 |
| <ul style="list-style-type: none"> • Tampa R Users Group (Meetup)
Title: "Literature Review and Novel Methods in Drug - Adverse Event Association Study"
Archive: https://github.com/TampaUseRs/TampaUseRs/tree/master/meetups/20180619-machine-learning | 6/2018 |

EDUCATION

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| 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) | |

COMPUTER SKILLS

I am very familiar with the following.

Operating System

- Ubuntu Linux

Programming

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

Databases Management

- IBM Netezza, SQL Server, MS Access, MongoDB

Cloud Computing

- Amazon Web Service, DigitalOcean

AWARDS & CREDENTIALS

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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 th 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 | |
| • Actuarial Exams: P (6/2013), FM(7/2014), C & MFE (7/2016, passed both in the same week!) | |

LEADERSHIPS & ACTIVITIES

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| • 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 |
| • Bronze Medal , Florida State Closed Tournament, Central Florida Table Tennis | 2014 |
| • President , Actuarial Society at USF | 12/2014 – 5/2016 |
| • SQL & Python Teacher , Actuarial Society at USF | 1/2017 – 5/2018 |