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.

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

- **Transportation Research Board 98th Annual Meeting (Conference)** 1/2019
  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
  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
  Title: "Literature Review and Novel Methods in Drug - Adverse Event Association Study"
  Archive: https://github.com/TampaUseRs/TampaUseRs/tree/master/meetups/20180619-machine-learning

EDUCATION

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

- Travel award of $1000 from The Center for Transportation, Equity, Decisions and Dollars 12/2018
- IEEE Big Data 2018 Challenge: 8th 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

- **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