Lam M. Nguyen

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FIELDS OF INTEREST

AI Solutions, Trusted AI, Design and Analysis of Learning Algorithms, Large Scale Optimization, Machine Learning, Deep Learning, Reinforcement Learning

| EDUCATION | |
|------------------|---|
| 2014 - 2018 | Ph.D. , Department of Industrial and Systems Engineering, <i>Lehigh University</i> , |
| | Bethlehem, PA |
| | <u>Thesis advisor</u> : Prof. Katya Scheinberg |
| | Thesis title: A Service System with On-Demand Agents, Stochastic Gradient |
| | Algorithms and the SARAH Algorithm |
| | Elizabeth V. Stout Dissertation Award |
| | Research areas: Optimization for Large Scale Problems, Machine Learning, Deep |
| | Learning, Stochastic Models, Optimal Control |
| 2011 - 2013 | M.B.A. , College of Business, <i>McNeese State University</i> , Lake Charles, LA |
| | Beta Gamma Sigma (Academic Honor) |
| 2004 - 2008 | B.S. , Applied Mathematics and Computer Science, Faculty of Computational |
| | Mathematics and Cybernetics, Lomonosov Moscow State University, Moscow, Russia |
| | <u>Thesis advisor</u> : Prof. Vladimir I. Dmitriev |
| | Thesis title: Methods for Detecting Hidden Period in Some Economics Processes |
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| RESEARCH EX | RESEARCH EXPERIENCE | | |
| 10/2018 - | Research Scientist, IBM T.J. Watson Research Center, Yorktown Heights, NY | | |
| Present | Research areas: AI Solutions, Optimization, Machine Learning, Deep Learning, | | |
| | Reinforcement Learning | | |
| | o Doing optimization and AI research to build solutions for heavy industries | | |
| | o Developing algorithms and solutions for operations management across industries | | |
| | • Exploring and developing algorithms to address new problems in the area of convex and non-convex formulations for machine learning | | |
| | Technical: Python, TensorFlow, Keras | | |
| 05/2018 - | Research Intern, IBM T.J. Watson Research Center, Yorktown Heights, NY | | |
| 08/2018 | Research areas: Optimization, Machine Learning, Deep Learning, Reinforcement | | |
| | Learning | | |
| | • Provided a solution pattern that analyzes IoT sensor data and failure information | | |
| | from multiple assets and provides an interpretable insight for data-driven failure | | |
| | analysis | | |
| | Technical: Python | | |
| 08/2017 — | Research Co-op, IBM T.J. Watson Research Center, Yorktown Heights, NY | | |
| 05/2018 | Research areas: Optimization, Machine Learning, Deep Learning | | |
| | o Implemented a library for sparsification of deep neural networks | | |
| | • Explored and developed algorithms to address new problems in the area of convex | | |

and non-convex formulations for machine learning

Technical: Python, TensorFlow, Keras

06/2017 – **Research Intern**, *IBM T.J. Watson Research Center*, Yorktown Heights, NY

08/2017 Research areas: Optimization, Machine Learning, Deep Learning

• Developing sparsification methods for deep neural networks using optimization models

Technical: Python, TensorFlow

09/2014 – **Research Assistant**, *Lehigh University*, Bethlehem, PA

Research areas: Optimization for Large Scale Problems, Machine Learning, Deep Learning, Stochastic Models, Optimal Control

- Developed and improved machine learning algorithms in order to solve complex problems such as some structured prediction problems and neural network learning
- Proposed a new algorithm named SARAH, which can solve convex and non-convex large scale optimization finite-sum problems
- Developed stochastic models of service systems with on-demand agent invitations and designed real-time adaptive agent invitation schemes to minimize both waiting-times of customers and agents

Technical: MATLAB, Python, PyTorch, TensorFlow, C++

01/2012 — **Graduate (Research) Assistant,** *McNeese State University*, Lake Charles, LA Research areas: Operations Management and Finance

- Published a paper related on investigating the effect of the financial crisis on CEO compensation using regression analysis to analyze the real data
- Developed a simulation model based on the given data from Calcasieu Parish School Board and provided suggestions to improve the performance of the system, which reduced 40% cost for employees

Technical: SAS, MATLAB, Arena Simulation

TEACHING EXPERIENCE

05/2017

| 09/2014 - | Teaching Assistant , Lehigh University, Bethlehem, PA |
|-----------|--|
| 05/2015 | Courses: Engineering Probability (ISE 111), Applied Engineering Statistics (ISE 121) |
| 01/2012 - | Graduate (Teaching) Assistant, McNeese State University, Lake Charles, LA |
| 12/2013 | Courses: Human Resource Management (MGMT 310), Staffing (MGMT 315), |
| | Strategic Management (MGMT 481), Management Theory and Organizational |
| | Behavior (MGMT 604), Issues in Global Business (BADM 218), Entrepreneurial |
| | Finance for Small Business (FIN 308) |
| 09/2007 - | Teaching Assistant, Lomonosov Moscow State University, Moscow, Russia |
| 05/2008 | Courses: Mathematical Analysis (Calculus), Linear Algebra and Analytic Geometry |

OTHER WORK EXPERIENCE

| 05/2013 - | Graduate Assistant (Web Developer), McNeese State University, Lake Charles, LA |
|-----------|--|
| 08/2013 | o Developed and maintained a website for College of Business |
| | Technical: PHP, JavaScript |
| | |

09/2008 – **Software Engineer**, *FPT Software Company*, Ho Chi Minh City, Vietnam o Analyzed functional requirements, developed and tested software applications Technical: Java, C++, SQL, .NET (C#), JavaScript

PUBLICATIONS

| [10] | Phuong Ha Nguyen, Lam M. Nguyen , and Marten van Dijk. <u>Tight Dimension</u> |
|------------------|---|
| [10] | Independent Lower Bound on the Expected Convergence Rate for Diminishing Step |
| | Sizes in SGD, The 33th Annual Conference on Neural Information Processing |
| | Systems (NeurIPS 2019), 2019 (21.17% acceptance rate) |
| [9] | Lam M. Nguyen*, Phuong Ha Nguyen*, Peter Richtarik, Katya Scheinberg, Martin |
| [7] | Takac, and Marten van Dijk. New Convergence Aspects of Stochastic Gradient |
| | Algorithms, Accepted to Journal of Machine Learning Research after minor revision |
| [8] | Marten van Dijk, Lam M. Nguyen , Phuong Ha Nguyen, and Dzung T. Phan. |
| [O] | Characterization of Convex Objective Functions and Optimal Expected Convergence |
| | Rates for SGD. The 36th International Conference on Machine Learning (ICML |
| | 2019), PMLR 97, 2019 (22.5% acceptance rate) |
| [7] | Tsui-Wei Weng, Pin-Yu Chen*, Lam M. Nguyen* , Mark S. Squillante*, Akhilan |
| [/] | Boopathy, Ivan Oseledets, and Luca Daniel. <u>PROVEN: Verifying Robustness of</u> |
| | Neural Networks with a Probabilistic Approach. <i>The 36th International Conference</i> |
| | on Machine Learning (ICML 2019), PMLR 97, 2019 (22.5% acceptance rate) |
| [6] | Dhaval Patel, Lam M. Nguyen , Akshay Rangamani, Shrey Shrivastava, and Jayant |
| լսյ | Kalagnanam. ChieF: A Change Pattern based Interpretable Failure Analyzer. 2018 |
| | IEEE International Conference on Big Data (IEEE BigData 2018), 2018 |
| [5] | Lam M. Nguyen , Phuong Ha Nguyen, Marten van Dijk, Peter Richtarik, Katya |
| [2] | Scheinberg, and Martin Takac. SGD and Hogwild! Convergence Without the |
| | Bounded Gradients Assumption. The 35th International Conference on Machine |
| | Learning (ICML 2018), PMLR 80, 2018 (25% acceptance rate) |
| | IBM Research AI – Selected Publications 2018 |
| [4] | Lam M. Nguyen, Jie Liu, Katya Scheinberg, and Martin Takac. SARAH: A Novel |
| נין | Method for Machine Learning Problems Using Stochastic Recursive Gradient. <i>The</i> |
| | 34th International Conference on Machine Learning (ICML 2017), PMLR 70:2613- |
| | 2621, 2017 (25% acceptance rate) |
| | Van Hoesen Family Best Publication Award |
| [3] | Lam M. Nguyen, and Alexander L. Stolyar. A Queueing System with On-demand |
| r- 1 | Servers: Local Stability of Fluid Limits. Queueing Systems, 1-26, Springer, 2017 |
| [2] | Lam M. Nguyen, and Alexander L. Stolyar. A Service System with Randomly |
| | Behaving On-demand Agents. The 42nd International Conference on Measurement |
| | and Modeling of Computer Systems (SIGMETRICS 2016), ACM SIGMETRICS |
| | Performance Evaluation Review, 44(1):365-366, 2016 (25% acceptance rate) |
| [1] | Prasad Vemala, Lam Nguyen , Dung Nguyen, and Alekhya Kommasani. CEO |
| | Compensation: Does Financial Crisis Matter? International Business Research, |
| | 7(4):125-131, 2014 |
| | |
| PREPRINTS | |
| . ~ | |

[7] Quoc Tran-Dinh, Nhan H. Pham, Dzung T. Phan, and Lam M. Nguyen. A Hybrid Stochastic Optimization Framework for Stochastic Composite Nonconvex Optimization, arXiv preprint, 2019

[6] Quoc Tran-Dinh, Nhan H. Pham, Dzung T. Phan, and Lam M. Nguyen. Hybrid Stochastic Gradient Descent Algorithms for Stochastic Nonconvex Optimization, arXiv preprint, 2019

| [5] | Nhan H. Pham, Lam M. Nguyen, Dzung T. Phan, and Quoc Tran-Dinh. |
|---|--|
| [2] | ProxSARAH: An Efficient Algorithmic Framework for Stochastic Composite |
| | Nonconvex Optimization, arXiv preprint, 2019 |
| [4] | Lam M. Nguyen, Marten van Dijk, Dzung T. Phan, Phuong Ha Nguyen, Tsui-Wei |
| | Weng, and Jayant R. Kalagnanam. Finite-Sum Smooth Optimization with SARAH, |
| 503 | arXiv preprint, 2019 |
| [3] | Lam M. Nguyen, Katya Scheinberg, and Martin Takac. <u>Inexact SARAH Algorithm</u> |
| [2] | for Stochastic Optimization, arXiv preprint, 2018 Lam M. Nguyen, Nam H. Nguyen, Dzung T. Phan, Jayant R. Kalagnanam, and Katya |
| [2] | Scheinberg. When Does Stochastic Gradient Algorithm Work Well? arXiv preprint, |
| | 2018 |
| [1] | Lam M. Nguyen, Jie Liu, Katya Scheinberg, and Martin Takac. Stochastic Recursive |
| | Gradient Algorithm for Nonconvex Optimization, arXiv preprint, 2017 |
| | |
| PATENTS | |
| 2019 | Dzung T. Phan, Lam M. Nguyen , Pavankumar Murali, and Jayant R. Kalagnanam. |
| | Prediction Optimization for System-level Production Control. (Pending) Filed on July 23, 2019 |
| 2019 | Dzung T. Phan, Lam M. Nguyen , Nam H. Nguyen, and Jayant R. Kalagnanam. |
| 201) | Compression of Deep Neural Networks. (Pending) Filed on March 13, 2019 |
| | |
| THESES | |
| | |
| 2018 | Lam M. Nguyen. A Service System with On-Demand Agents, Stochastic Gradient |
| 2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, |
| 2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA |
| | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award |
| 2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics |
| | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, |
| | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics |
| | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia |
| 2008 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia |
| 2008 INVITED TAI | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ |
| 2008 INVITED TAI | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. |
| 2008 INVITED TAI 11/2018 08/2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA |
| 2008 INVITED TAI 11/2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society |
| 2008 INVITED TAI 11/2018 08/2018 03/2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society Conference, Denver, CO |
| 2008 INVITED TAI 11/2018 08/2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society |
| 2008 INVITED TAI 11/2018 08/2018 03/2018 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society Conference, Denver, CO SARAH: Stochastic recursive gradient algorithm. INFORMS Annual Meeting, |
| 2008 INVITED TAI 11/2018 08/2018 03/2018 10/2017 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society Conference, Denver, CO SARAH: Stochastic recursive gradient algorithm. INFORMS Annual Meeting, Houston, TX SARAH algorithm. IBM T.J. Watson Research Center, Yorktown Heights, NY A queueing system with on-demand servers: local stability of fluid limits. INFORMS |
| 2008 INVITED TAI 11/2018 08/2018 03/2018 10/2017 08/2017 11/2016 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society Conference, Denver, CO SARAH: Stochastic recursive gradient algorithm. INFORMS Annual Meeting, Houston, TX SARAH algorithm. IBM T.J. Watson Research Center, Yorktown Heights, NY A queueing system with on-demand servers: local stability of fluid limits. INFORMS Annual Meeting, Nashville, TN |
| 2008 INVITED TAI 11/2018 08/2018 03/2018 10/2017 08/2017 | Algorithms and the SARAH Algorithm. PhD dissertation, Lehigh University, Bethlehem, PA Elizabeth V. Stout Dissertation Award Lam M. Nguyen. Methods for Detecting Hidden Period in Some Economics Processes. Undergraduate thesis, Lomonosov Moscow State University, Moscow, Russia LKS Inexact SARAH for Solving Stochastic Optimization Problems. INFORMS Annual Meeting, Phoenix, AZ Inexact SARAH for Solving Stochastic Optimization Problems. DIMACS/TRIPODS/MOPTA, Bethlehem, PA When does stochastic gradient algorithm work well? INFORMS Optimization Society Conference, Denver, CO SARAH: Stochastic recursive gradient algorithm. INFORMS Annual Meeting, Houston, TX SARAH algorithm. IBM T.J. Watson Research Center, Yorktown Heights, NY A queueing system with on-demand servers: local stability of fluid limits. INFORMS |

PROFESSIONAL MEMBERSHIPS

| 2016 – Present | Society for Industrial and Applied Mathematics (SIAM |) |
|----------------|---|---|
| 2010 11030Ht | boolety for industrial and ripplied Mathematics (51711) | L |

2014 – Present Society for Industrial and Applied Mathematics (SFAW)

2014 – Present The Institute for Operations Research and the Management Sciences (INFORMS)

Beta Gamma Sigma (The International Business Honor Society)

PROFESSIONAL ACTIVITIES

| | ALL ACTIVITIES |
|------|--|
| 2019 | Program Committee (Reviewer) , The 23rd International Conference on Artificial |
| 2010 | Intelligence and Statistics (AISTATS 2020) |
| 2019 | Program Committee (Reviewer), The 34th AAAI Conference on Artificial |
| | Intelligence (AAAI 2020) |
| 2019 | Program Committee (Reviewer) , The 8th International Conference on Learning |
| | Representations (ICLR 2020) |
| 2019 | Program Committee (Reviewer) , The 35th Conference on Uncertainty in Artificial |
| | Intelligence (UAI 2019) |
| 2019 | Program Committee (Reviewer), The 33th Annual Conference on Neural |
| •040 | Information Processing Systems (NeurIPS 2019) |
| 2019 | Program Committee (Reviewer) , The 2019 IEEE/CVF International Conference on |
| | Computer Vision (ICCV 2019) |
| 2019 | Reviewer, Journal of Machine Learning Research, 2019 |
| 2019 | Session Chair, "Fast and Provable Nonconvex Optimization Algorithms in Machine |
| | Learning" session, INFORMS Annual Meeting 2019 |
| 2019 | Program Committee (Reviewer) , The 36th International Conference on Machine |
| | Learning (ICML 2019) |
| 2018 | Program Committee (Reviewer) , The 30th IEEE/CVF Conference on Computer |
| | Vision and Pattern Recognition (CVPR 2019) |
| 2018 | Program Committee (Reviewer) , The 22nd International Conference on Artificial |
| | Intelligence and Statistics (AISTATS 2019) |
| 2018 | Program Committee (Reviewer) , The 7th International Conference on Learning |
| | Representations (ICLR 2019) |
| 2018 | Program Committee (Reviewer) , The 33rd AAAI Conference on Artificial |
| | Intelligence (AAAI 2019) |
| 2018 | Reviewer, Optimization Methods and Software, 2018 |
| 2018 | Reviewer, Journal of Machine Learning Research, 2018 |
| 2018 | Session Chair, "Recent Advances in Optimization Methods for Machine Learning" |
| | session, INFORMS Annual Meeting 2018 |
| 2018 | Organizer, "Sparse Optimization" and "Stochastic Gradient Descent" sessions, |
| | TRIPODS/MOPTA 2018 |
| 2018 | Program Committee (Reviewer) , The 32nd Annual Conference on Neural |
| | Information Processing Systems (NIPS/NeurIPS 2018) |
| 2018 | Program Committee (Reviewer), "Modern Trends in Nonconvex Optimization for |
| | Machine Learning", ICML 2018 Workshop |
| 2018 | Program Committee (Reviewer) , The 35th International Conference on Machine |
| | Learning (ICML 2018) |
| 2017 | Program Committee (Reviewer) , The 6th International Conference on Learning |
| | Representations (ICLR 2018) |
| 2017 | Program Committee (Reviewer) , The 31st Annual Conference on Neural |
| | |

| | Information Processing Systems (NIPS 2017) |
|------|--|
| 2017 | Program Committee (Reviewer) , The 34th International Conference on Machine |
| | Learning (ICML 2017) |

MENTORSHIP

| 2019 – Present | Toan N. Nguyen , Ph.D. student, <i>University of Connecticut</i> , (student of Prof. Marten |
|----------------|--|
| | van Dijk) |
| 2019 – Present | Nhuong V. Nguyen, Ph.D. student, <i>University of Connecticut</i> , (student of Prof. |
| | Marten van Dijk) |
| 2018 – Present | Nhan H. Pham, Ph.D. student, <i>University of North Carolina at Chapel Hill</i> (student |
| | of Prof. Quoc Tran-Dinh) |

HONORS & AWARDS

| 2019 | Elizabeth V. Stout Dissertation Award, Lehigh University, Bethlehem, PA |
|-------------|--|
| 2018 | Van Hoesen Family Best Publication Award, Lehigh University, Bethlehem, PA |
| 2016 - 2017 | Dean's Doctoral Fellowship (RCEAS), Lehigh University, Bethlehem, PA |
| 2014 - 2015 | Dean's Doctoral Assistantship, Lehigh University, Bethlehem, PA |
| 2014 | Beta Gamma Sigma (Academic Honor Society) |
| 2011 - 2013 | Dore Graduate Stipends, McNeese State University, Lake Charles, LA |

SKILLS & QUALIFICATIONS

| SMILES & CHEMICATIONS | |
|-----------------------|---|
| Technical | Python, TensorFlow, Keras, PyTorch, MATLAB |
| | C++, Java, SAS, AMPL, SQL, C#, JavaScript, PHP, Linux |
| Language | Vietnamese (Native), English (Proficient), Russian (Proficient), French (Basic) |
| Leadership | Chief Administrator, Olympia Vietnam Forum and Community (2005 – 2015) |