

Duong T. A. Nguyen

School of Electrical, Computer and Energy Engineering
Arizona State University
Tempe, AZ 85281

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Education

Ph.D. student (GPA: 4.0/4.0)

December 2020 - present

School of Electrical, Computer and Energy Engineering, Arizona State University

Ph.D. candidate

August 2019 - December 2020

Department of Mathematics, University of Louisiana at Lafayette

M.S. in Applied Mathematics (GPA: 4.0/4.0)

December 2019

University of Louisiana at Lafayette

B.S. in Mathematics Education (GPA: 3.89/4.0)

June 2017

Dalat University, Dalat, Vietnam

Publications

Duong T. A. Nguyen, Duong Tung Nguyen, Angelia Nedić, **Distributed Nash Equilibrium Seeking over Time-Varying Directed Communication Networks**. (Submitted to IEEE Transactions on Automatic Control)

Duong T. A. Nguyen, Longfei Li, Hangjie Ji, **Stable and accurate algorithms for generalized Kirchhoff-Love plates**, Journal of Engineering Mathematics, October 2021.

Papers in preparation

Angelia Nedić, Duong T. A. Nguyen, Duong Tung Nguyen, **AB/Push-Pull Method for Distributed Optimization in Time-Varying Directed Networks**

Tarannum Nisha, Duong T. A. Nguyen, Duong Tung Nguyen, Vijay K. Bhargava, **A Bi-level Mixed-integer Model for Service Placement and Pricing in Edge Computing**

Duong T. A. Nguyen, Duong Tung Nguyen, **Resilient Edge Network Planning with Proactive Uncertainty Reduction**

Duong T. A. Nguyen, Duong Tung Nguyen, **Fairness-Aware Edge Service Placement and Sizing under Demand Uncertainty**

Duong T. A. Nguyen, Duong Tung Nguyen, **A Market-Based Mechanism for Joint Resource Provisioning and Allocation in Edge Computing**

Computer Skills

MATLAB, LaTeX, Julia, Python, SQL, R, SAS.

Research Experience

Research Assistant

December 2020 - present

School of Electrical, Computer and Energy Engineering, Arizona State University

Advisor: *Dr. Duong Tung Nguyen*

Research Assistant

January 2019 - December 2020

Department of Mathematics, University of Louisiana at Lafayette

Advisor: *Dr. Longfei Li*

Undergraduate Research

Duong T. A. Nguyen, Dang Phuoc Huy, **Multiple linear regression analysis and an application**, Undergraduate Thesis, Faculty of Mathematics and Informatics, Dalat University, Vietnam, 2017.

Duong T. A. Nguyen, Dang Tuan Hiep, **Functional equations**, Scientific Research Competition for College Students, Dalat University, Vietnam, 2015.

Teaching Experience

Teaching Assistant

August 2017 - December 2018

Department of Mathematics, University of Louisiana at Lafayette

Fall 2018: MATH 103/104 College Algebra (Instructor)

Spring 2018: STAT 214 Elementary Statistics (TA)

Fall 2017: STAT 214 Elementary Statistics (TA)

Tutoring at Math Lab

August 2017 - May 2018

Department of Mathematics, University of Louisiana at Lafayette

Presentations

International Conference on Continuous Optimization, **Distributed Nash Equilibrium Seeking over Time-Varying Directed Communication Networks**, Bethlehem, PA, July 2022.

2021 INFORMS Annual Meeting, **Market-based Mechanisms For Fair And Efficient Resource Allocation In Edge Computing**, Anaheim, CA, October 2021.

LA/MS Sectional Meeting of the Mathematical Association of America, **A comparative study of physics-informed deep learning models for discovering partial differential equations**, Loyola University, New Orleans, LA, February 2020.

Annual Graduate Student Symposium, **Stable and accurate algorithms for generalized Kirchhoff-Love plates**, University of Louisiana at Lafayette, Lafayette, LA, November 2019.

AMS Sectional Meeting, **Stable and accurate algorithms for generalized Kirchhoff-Love plates**, University of California, Riverside, Riverside, CA, November 2019.

MATH 495 - Advanced Mathematics for Engineers and Scientists (Invited talk), **Numerical methods for PDEs and an application in solving Kirchhoff-Love plate models**, University of Louisiana at Lafayette, Lafayette, LA, November 2019.

Applied Mathematics Seminar, **A stable and accurate algorithm for a generalized Kirchhoff-Love plate model**, University of Louisiana at Lafayette, Lafayette, LA, October 2019.

Posters

45th Annual New York State Regional Graduate Mathematics Conference, **Stable and accurate algorithms for generalized Kirchhoff-Love plates**, Syracuse University, Syracuse, NY, March 2020 (remote due to COVID-19).

SIAM Texas-Louisiana Annual Meeting, **A stable and accurate algorithm for a generalized Kirchhoff-Love plate model**, Southern Methodist University, Dallas, TX, November 2019.

Conferences and Workshops

Foundations and Frontiers of Probabilistic Proofs, ETH, Zurich, Switzerland, July 26, 2021 to August 06, 2021. (remote due to COVID-19)

Scientific Computing Around Louisiana (SCALA), Louisiana State University, Baton Rouge, LA, February 2020.

UCR Math Workshop for Excellence and Diversity, University of California, Riverside, Riverside, CA, November 2019.

Lloyd Roeling UL Lafayette Mathematics Conference, University of Louisiana at Lafayette, Lafayette, LA, October 2019.

AWM Research Symposium, Rice University, Houston, TX, April 2019.

Louisiana Chapter of the ASA - Fall 2018 Meeting, Louisiana State University, Baton Rouge, LA, November 2018.

VIASM Mathematics Summer School, Quy Nhon University, Quy Nhon, Vietnam, July 2015.

Honors and Awards

Outstanding Research Award, Arizona State University, Spring 2022.

Engineering Graduate Fellowship, Ira A. Fulton Schools of Engineering, Arizona State University, Spring 2021.

Travel Award, Annual New York State Regional Graduate Mathematics Conference, Syracuse University, NY, February 2020.

Finalists of the Three Minutes Thesis Competition, University of Louisiana at Lafayette, Lafayette, LA, November 2019.

Best Posters Award, SIAM Texas–Louisiana Annual Meeting, Southern Methodist University, Dallas, TX, November 2019.

SIAM TX-LA Travel Award, Southern Methodist University, Dallas, TX, November 2019.

Academic Excellence (GPA: 4.0/4.0), University of Louisiana at Lafayette, 2019, 2020.

Outstanding Graduate Award (GPA: 3.89/4.0), Dalat University, Vietnam, June 2017.

Scholarship of the Key National Program “Development in Mathematics”, Vietnam Institute for Advanced Study in Mathematics, Vietnam, 2015, 2016, 2017.

Outstanding Young Faces Award, Dalat University, Vietnam, October 2013.

Highest score in the entrance exam to Dalat University, Vietnam, August 2013.

Consolation prize in Mathematics in the Competition for Excellent Students, National Level, Ministry of Education and Training, Vietnam, March 2013.

Second prize in Mathematics Competition for Excellent Students: "Solving problems with portable calculators", Province Level, Lam Dong, Vietnam, 2013.

Second prize in Mathematics Competition for Excellent Students, Province Level, Lam Dong, Vietnam, 2013.

Odon Vallet Scholarship Award, Lam Dong, Vietnam, 2012.

Professional Associations

Association for Women in Mathematics (AWM)

Society for Industrial and Applied Mathematics (SIAM)

American Mathematical Society (AMS)