	NHAN DU VI NGUYENJanuary 5, 2024
E	University of Colorado Boulder Department of Mathematics Campus Box 395, MATH 202 Boulder, Colorado 80309-0395
\searrow	Nhan.Nguyen-1@colorado.edu
	https://sites.google.com/view/nhan-nguyen/home
	EDUCATION
2017 - 2023	Ph.D. in Mathematics, University of Virginia, Charlottesville, VA 22904, USA Advisor: Yen Q. Do Dissertation title: Estimates for correlation functions of real roots for random polynomials and
2016 - 2017	applications, https://doi.org/10.18130/7k2v-b102 MS in Mathematics, University of West Georgia, Carrollton, GA 30118, USA
2003 - 2007	Advisor: Tuan K. Vu BS in Mathematics, Quy Nhon University, Quy Nhon, Binh Dinh, Vietnam Advisor: Duc T. Dinh
	Thesis title: On some convolution norm inequalities and their application
	APPOINTMENTS
2023 - present	Visiting Assistant Professor (Postdoc), University of Colorado Boulder, Boulder, CO 80309, USA
2007 - 2015	Mentor: Sean O'Rourke Lecturer, Quy Nhon University, Binh Dinh, Vietnam Mentor: Quang T. Thai
	AWARDS, HONORS, AND GRANTS
2023	AWARDS, HONORS, AND GRANTS The Raven Society.
2023 2022 - 2023	AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation.
2023 2022 - 2023 2021 - 2022	AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia.
2023 2022 - 2023 2021 - 2022 2020	AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications".
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh.
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh.
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their applications", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces".
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015 2012 - 2014	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their applications", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh.
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015 2012 - 2014 2012	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their applications", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists.
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015 2012 - 2014 2012 2009 - 2011	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their applications", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh.
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015 2012 - 2014 2012 2009 - 2011 2010	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their applications", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quo Travel Grant (\$1240).
2023 $2022 - 2023$ $2021 - 2022$ 2020 $2018 - 2020$ $2015 - 2017$ $2013 - 2015$ $2012 - 2014$ 2012 $2009 - 2011$ 2010 $2008 - 2009$	AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their appli- cations", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. ICM 2010 Travel Grant (\$1240). Member, MOET grant B2008.28.12: "On some convolution inequalities in L_p -weighted spaces and their applications", PI listed as Duc T. Dinh.
2023 $2022 - 2023$ $2021 - 2022$ 2020 $2018 - 2020$ $2015 - 2017$ $2013 - 2015$ $2012 - 2014$ 2012 $2009 - 2011$ 2010 $2008 - 2009$ 2007	AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their appli- cations", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. ICM 2010 Travel Grant (\$1240). Member, MOET grant B2008.28.12: "On some convolution inequalities in L_p -weighted spaces and their applications", PI listed as Duc T. Dinh. Second Prize, Vietnam Fund for Supporting Technological Creations Award; Second Prize, Vietnam Scientific Research Student Award;
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015 2012 - 2014 2012 2009 - 2011 2009 - 2010 2008 - 2009 2007	 AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their applications", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. ICM 2010 Travel Grant (\$1240). Member, MOET grant B2008.28.12: "On some convolution inequalities in L_p-weighted spaces and their applications", PI listed as Duc T. Dinh. Second Prize, Vietnam Fund for Supporting Technological Creations Award; Second Prizes and two Third Prizes. Vietnam Mathematical Olympiad
2023 2022 - 2023 2021 - 2022 2020 2018 - 2020 2015 - 2017 2013 - 2015 2012 - 2014 2012 2009 - 2011 2009 - 2011 2008 - 2009 2007 2007	AWARDS, HONORS, AND GRANTS The Raven Society. The Roselle-Huneke Award in Mathematics, Jefferson Scholars Foundation. All-University Graduate Teaching Award, University of Virginia. VIASM, Mathematical Research Award: "Dynamic Picone's identity and its applications". Co-PI, NAFOSTED grant 101.02-2017.310: "Some selected problems in inequalities, dynamical systems theory, and applications", PI listed as Duc T. Dinh. Co-PI, NAFOSTED grant 101.02-2014.32: "Some problems on integral inequalities, differential variational inequalities, and stochastic differential equations", PI listed as Duc T. Dinh. VIASM, Mathematical Research Awards: "Inequalities for partial derivatives and their appli- cations", "Inequalities for differences and their applications", and "Convolution inequalities in l_p weighted spaces". Co-PI, NAFOSTED grant 101.01-2011.15: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. Quy Nhon University Award for Talented Young Scientists. Co-PI, NAFOSTED grant 101.01.45.09: "Some selected trends in mathematical analysis and their applications", PI listed as Duc T. Dinh. ICM 2010 Travel Grant ($\$1240$). Member, MOET grant B2008.28.12: "On some convolution inequalities in L_p -weighted spaces and their applications", PI listed as Duc T. Dinh. Second Prize, Vietnam Fund for Supporting Technological Creations Award; Second Prize, Vietnam Scientific Research Student Award; Quy Nhon University Award for Outstanding Students. Four Second Prizes and two Third Prizes, Vietnam Mathematical Olympiad. Outstanding Students of the Year, Vietnam National Union of Students.

RESEARCH

My interests cover a wide range of areas, including Probability theory and stochastic processes, Real functions, Integral transforms, operational calculus, Functional analysis, Partial differential equations, and Operator theory.

Preprints

- [1] Yen Q. Do and Nhan D. V. Nguyen, Convergence theorems for real roots of generalized Kac polynomials, in preparation.
- [2] Yen Q. Do, Nhan D. V. Nguyen, and Sean O'Rourke, Real roots of non-centered generalized Kac polynomials, in preparation.
- [3] Yen Q. Do and Nhan D. V. Nguyen, Real roots of random polynomials with coefficients of polynomial growth: asymptotics of the variance, 33 pages, submitted. arXiv:2303.05478
- [4] Nhan D. V. Nguyen, The number of real zeros of elliptic polynomials, 46 pages, submitted. arXiv:2111.10875

Publications

- Duc T. Dinh, Hue N. Nguyen, Nhan D. V. Nguyen, and Tuan K. Vu, Convexity according to a pair of quasi-arithmetic means and inequalities, J. Math. Anal. Appl. 488 (2020), no. 1, 124059, 23 pp. MR4079595
- [2] Nhan D. V. Nguyen, Duc T. Dinh, Tuan K. Vu, and Phung D. Tran, Dynamic Picone's identity and its applications, J. Math. Anal. Appl. 469 (2019), no. 1, 342–357. MR3857526
- [3] Nhan D. V. Nguyen, Phung D. Tran, Duc T. Dinh, and Tuan K. Vu, Opial and Lyapunov inequalities on time scales and their applications to dynamic equations, Kodai Math. J. 40 (2017), no. 2, 254–277. MR3680561
- [4] Duc T. Dinh, Nhan D. V. Nguyen, and Xuan T. Nguyen, Inequalities for partial derivatives and their applications, Canad. Math. Bull. 58 (2015), no. 3, 486–496. MR3372865
- [5] Duc T. Dinh and Nhan D. V. Nguyen, Norm inequalities for new convolutions and their applications, Appl. Anal. Discrete Math. 9 (2015), no. 1, 168–179. MR3362704
- [6] Nhan D. V. Nguyen, Duc T. Dinh, Tuan K. Vu, and Vu D. H. Nguyen, Inequalities for differences and their applications, J. Difference Equ. Appl. 20 (2014), no. 9, 1319–1343. MR3226858
- [7] Nhan D. V. Nguyen, Duc T. Dinh, and Tuan K. Vu, Weighted norm inequalities for derivatives and their applications, Kodai Math. J. 36 (2013), no. 2, 228–245. MR3081244
- [8] Nhan D. V. Nguyen and Duc T. Dinh, Norm inequalities for Mellin convolutions and their applications, Complex Anal. Oper. Theory 7 (2013), no. 4, 1287–1297. MR3079856
- [9] Nhan D. V. Nguyen and Duc T. Dinh, Various inequalities in reproducing kernel Hilbert spaces, Taiwanese J. Math. 17 (2013), no. 1, 221–237. MR3028866
- [10] Nhan D. V. Nguyen and Duc T. Dinh, Convolution inequalities and their applications to reproducing kernel Hilbert spaces, Interactions between real and complex analysis, 224–242, Sci. Technics Publ. House, Hanoi, 2012. MR3135825
- [11] Nhan D. V. Nguyen and Duc T. Dinh, Convolution inequalities in ℓ_p weighted spaces, Canad. Math. Bull. 55 (2012), no. 2, 355–367. MR2957252
- [12] Duc T. Dinh and Nhan D. V. Nguyen, Generalize some norm inequalities of Saitoh, Kodai Math. J. 34 (2011), no. 2, 191–201. MR2811640
- [13] Nhan D. V. Nguyen, Duc T. Dinh, and Tuan K. Vu, Weighted norm inequalities for a nonlinear transform, Comput. Math. Appl. 61 (2011), no. 4, 832–839. MR2770487
- [14] Nhan D. V. Nguyen, Duc T. Dinh, and Tuan K. Vu, Reverse weighted L_p -norm inequalities for convolution type integrals, Armen. J. Math. 2 (2009), no. 3, 77–93. MR2556776
- [15] Nhan D. V. Nguyen and Duc T. Dinh, Fundamental iterated convolution inequalities in weighted L_p spaces and their applications, Math. Inequal. Appl. 12 (2009), no. 3, 487–498. MR2540972
- [16] Duc T. Dinh and Nhan D. V. Nguyen, On some reverse weighted $L_p(\mathbb{R}^n)$ -norm inequalities in convolutions and their applications, Math. Inequal. Appl. 12 (2009), no. 1, 67–80. MR2489351
- [17] Nhan D. V. Nguyen, Duc T. Dinh, and Tuan K. Vu, Weighted L_p -norm inequalities for various convolution type transformations and their applications, Armen. J. Math. 1 (2008), no. 4, 1–18. MR2472168

- [18] Nhan D. V. Nguyen and Duc T. Dinh, Fundamental inequalities for the iterated Laplace convolution in weighted L_p spaces and their applications, Integral Transforms Spec. Funct. 19 (2008), no. 9–10, 655–664. MR2454725
- [19] Nhan D. V. Nguyen and Duc T. Dinh, Reverse weighted L_p-norm inequalities and their applications, J. Math. Inequal. 2 (2008), no. 1, 57–73. MR2453635
- [20] Nhan D. V. Nguyen and Duc T. Dinh, Weighted L_p -norm inequalities in convolutions and their applications, J. Math. Inequal. 2 (2008), no. 1, 45–55. MR2453634
- [21] Duc T. Dinh and Nhan D. V. Nguyen, Some applications of convolution inequalities in weighted L_p spaces, Integral Transforms Spec. Funct. 19 (2008), no. 7–8, 471–480. MR2449616
- [22] Duc T. Dinh and Nhan D. V. Nguyen, On some convolution norm inequalities in weighted $L_p(\mathbb{R}^n, \rho)$ spaces and their applications, Math. Inequal. Appl. 11 (2008), no. 3, 495–505. MR2431214

SEMINAR AND CONFERENCE TALKS

- Oct 2023 Correlations between the real roots of random polynomials, part II, University of Colorado Boulder, Probability Seminar, 50-minute talk.
- Oct 2023 Correlations between the real roots of random polynomials, University of Colorado Boulder, Probability Seminar, 50-minute talk.
- Mar 2023 Real roots of random polynomials, UVa Math Open House, Flash talk.
- Oct 2022 Real roots of random polynomials with coefficients of polynomial growth, University of Virginia, Graduate Students Seminar, 50-minute talk.
- Jul 2022 Variance of real roots of random polynomials with coefficients of polynomial growth, Hanoi Institute of Mathematics, VAST (Vietnam), Workshop on Random Structures and Related Topics, 25-minute talk.
- Apr 2022 Cumulants of the number of real zeros of random polynomials, The Ohio State University, Combinatorics and Probability Seminar, 50-minute talk.
- Apr 2022 Variance of real zeros of random polynomials, University of Virginia, Harmonic Analysis & PDE Seminar, 50-minute talk.
- Nov 2021 Kac-Rice formulas and the number of real roots of random polynomials, University of Virginia, Graduate Students Seminar, 50-minute talk.
- Oct 2021 The number of real zeros of elliptic polynomials, University of Virginia, Harmonic Analysis & PDE Seminar, 50-minute talk.
- Feb 2021 Variance of real zeros of elliptic polynomials, University of Virginia, Harmonic Analysis & PDE Seminar, 50-minute talk.
- Nov 2020 Slepian's lemma and an application, University of Virginia, Graduate Students Seminar, 50minute talk.
- Mar 2020 What is the one force-one solution principle?, University of Virginia, "What is..." Precolloquium Series, 50-minute talk.
- Apr 2019 The number of real roots of random polynomials, University of Virginia, Harmonic Analysis & PDE Seminar, 50-minute talk.
- Sep 2019 Convexity according to a pair of quasi-arithmetic means and inequalities, University of Virginia, Graduate Students Seminar, 50-minute talk.
- Jan 2016 Dynamic Picone identities and their applications, University of West Georgia, Center for Applied Mathematics and Science Seminar, 45-minute talk.
- Aug 2013 Convolution norm inequalities in reproducing kernel Hilbert spaces, The 8th Vietnamese Mathematical Conference (Nha Trang, Vietnam), 45-minute invited talk with Duc T. Dinh.
- Aug 2012 Inequalities for differences and their applications, A Joint Congress of the French Mathematical Society and the Vietnamese Mathematical Society (Hue, Vietnam), 30-minute talk.
- Jul 2012 Convolution inequalities and their applications to reproducing kernel Hilbert spaces, The 20th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications (Hanoi, Vietnam), 30-minute talk.
- Mar 2011 Weighted ℓ_p -norm inequalities in convolutions, International Conference on Analysis & Applications (Ho Chi Minh City, Vietnam), 30-minute talk.
- Aug 2010 International Congress of Mathematicians (Hyderabad, India), attended.
- Aug 2008 Weighted L_p -norm inequalities for various convolution type transformations and their applications, The 7th Vietnamese Mathematical Conference (Quy Nhon, Vietnam), 15-minute talk.

REFEREEING

I have served as a referee for AIMS Mathematics, Integral Transforms and Special Functions, Korean Journal of Mathematics, Mathematica Bohemica, Mediterranean Journal of Mathematics, and Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas.

TEACHING EXPERIENCE

Spring 2024	Instructor at the University of Colorado Boulder Introduction to Probability Theory (flipped classroom model)
5pring 2021	Introduction to Linear Algebra for Non-Mathematics Majors (flipped classroom model)
Fall 2023	Introduction to Linear Algebra for Non-Mathematics Majors (flipped classroom model)
	Instructor at the University of Virginia
Summer 2022	Calculus I (flipped classroom model)
Spring 2022	Calculus I (flipped classroom model)
Fall 2021	Calculus I (flipped classroom model)
Summer 2021	A Survey of Calculus I (flipped classroom model, online)
Fall 2020	A Survey of Calculus II (flipped classroom model, online)
Fall 2019	A Survey of Calculus I (lecture oriented)
	Teaching Assistant at the University of Virginia
Spring 2023	Real Analysis and Linear Spaces I (Grader)
Fall 2022	Elementary Numerical Analysis (Grader)
Spring 2022	Differential Equations and Dynamical Systems (Grader)
Spring 2021	Basic Real Analysis (Grader)
Fall 2020	Introduction to Real Analysis (Grader)
Summer 2019	Calculus III (discussion)
Spring 2019	Ordinary Differential Equations (discussion, two sections)
Fall 2018	Basic Real Analysis
	Lecturer at Quy Nhon University
Fall 2015	Calculus I, Calculus II, Measure Theory
Spring 2015	Calculus III
Fall 2014	Calculus I, Calculus II
Summer 2014	Calculus I, Calculus II
Spring 2014	Calculus III
Fall 2013	Calculus I, Calculus II
Spring 2013	Special Functions
Fall 2012	Calculus I, Calculus II, Measure Theory
Summer 2012	Calculus I, Calculus II
Spring 2012	Special Functions, Partial Differential Equations
Fall 2011	Calculus I, Calculus II
Summer 2011	Calculus II, Partial Differential Equations
Spring 2011	Calculus III, Partial Differential Equations
Fall 2010	Calculus I, Calculus II
Spring 2010	Calculus III, Ordinary Differential Equations
Fall 2009	Calculus I, Calculus II, Ordinary Differential Equations
	Teaching Assistant at Quy Nhon University
Spring 2009	Calculus III, Complex Analysis, Partial Differential Equations
Fall 2008	Calculus I, Calculus II
Spring 2008	Calculus III, Complex Analysis, Partial Differential Equations

MENTORING

	Distinguished Majors Program at Quy Nhon University
2014 - 2015	Ngoc T. Y. Vo, Thesis title: "Lyapunov's inequality and applications".
2012 - 2013	Bao Q. Le, Thesis title: "Convolution inequalities and applications". Them T. Nguyen, Thesis title: "On some convergence theorems". Xuan T. Nguyen, Thesis title: "On the theory of reproducing kernels".
2011 - 2012	Chuan T. M. Tran, Thesis title: "On n -normed spaces". Quyen B. Tran, Thesis title: "Laplace transform and applications".
2010 - 2011	Phung D. Tran, Thesis title: "Some norm inequalities in Sobolev spaces".
	Undergraduate Research Program at Quy Nhon University
2012 - 2013	Bao Q. Le, Research title: "Convolutions and applications". Xuan T. Nguyen, Research title: "A generalization of Opial's inequality".
	Vietnam Mathematical Olympiad
2007 - 2015	Training sessions for students at Quy Nhon University

SKILLS

Language Vietnamese, English Coding Matlab, Mathematica, R