NAM HOAI LE

Boca Raton, Florida

☎ +1 (561) 975 8564   ●   ✉ namle2024@fau.edu

🌐 hoainam-le.github.io   ●   in hoai-nam-le-519b061aa

Florida Atlantic University

RESEARCH INTERESTS

Algebraic Number Theory, Lattices, and Cryptography

EDUCATION

Florida Atlantic University   **Florida, United States**
PhD in mathematics   *Aug 2024 - At present*

Ho Chi Minh City University of Science   **Ho Chi Minh City, Vietnam**
M.S in Algebra and Number Theory, GPA: 8.51/10.0   *Dec 2022*
Thesis title: *Well-rounded twists of ideal lattices from imaginary quadratic fields.*
Thesis mark: 10/10
Supervisor: Assoc. Prof. Ha Tran, Dr. Le Van Luyen.

Ho Chi Minh University of Education   **Ho Chi Minh City, Vietnam**
B.S. in Mathematics, GPA: 3.45/4.0   *June 2019*
Thesis title: *Spectrum of a ring.*
Thesis mark: 10/10
Supervisor: Assoc. Prof. My Vinh Quang.

Luong The Vinh Highschool for the Gifted   **Dong Nai, Vietnam**
High School   *2012–2015*
Class specialized in Mathematics.

EMPLOYMENT

Florida Atlantic University   **Florida, United States**
Graduate Teaching Assistant   *Aug 2024 – At present*

Ho Chi Minh City University of Science   **Ho Chi Minh City, Vietnam**
Adjunct Lecturer   *Feb 2024 – June 2024*

Vietquant   **Ho Chi Minh City, Vietnam**
Quantitative Researcher   *Apr 2020 – Oct 2023*

PUBLICATIONS

Well-rounded twists of the ring of integrers of cyclic cubic fields: with Dat T. Tran, Ha T. N. Tran and David Karpuk, submitted.

Well-Rounded ideal lattices of cyclic cubic and quartic fields: Communications in Mathematics, October 18, 2023, Volume 31 (2023), Issue 2 (Special issue: Euclidean lattices: theory and applications), with Dat T. Tran and Ha T. N. Tran.

Well-rounded twists of ideal lattices from imaginary quadratic fields: Journal of Algebra and Its Applications, with Dat T. Tran and Ha T. N. Tran.

SEMINARS AND WORKSHOPS

Preliminary Arizona Winter School 2025: Mathematical cryptography and algorithms in number theory: Online, September 22nd — November 21st, 2025

Graduate Workshop on Linear Algebra over Finite Fields & Applications: ICERM, Brown University, USA, August 18–29, 2025

Rethinking Number Theory 6 (RNT 6) Workshop: Online, June 16–27, 2025

CIMPA School on Applied Number Theory: Ho Chi Minh City University of Education, June 3–14, 2024

SEAMS School on Number Theory and Applications: The Industrial University of Ho Chi Minh City, Vietnam, June 12–22, 2023

CIMPA Research School on Group Actions in Arithmetic and Geometry: Gadjah Mada University, Indonesia, February 17–28, 2020

Workshop on Commutative Algebra: Ton Duc Thang University, Ho Chi Minh City, Vietnam, September 5–8, 2017

PROJECTS/RESEARCH EXPERIMENTS

Well-Rounded ideal lattices of biquadratic and pure cubic fields: Jul 2025 - at present, with Dat T. Tran, Morgan Smith, and Ha T. N. Tran.

The exceptional set in Cassels's theorem on smallcyclotomic integers: Jun 2025 - at present, with with Jorge Mello, Antoine Leudière, Jitendra Bajpai, Meghan Lee, and Srijan Das; under the supervision of Prof. Kiran Kedlaya.

Well-rounded Twists of Lattices in $\mathbb{R}^3$: Jul 2023 - June 2025, with Dave Karpuk, Dat T. Tran and Ha T. N. Tran.

Well-rounded ideals of cubic and quartic fields: June 2021 - Apr 2023, with Dat T. Tran and Ha T. N. Tran.

On norm Euclidean tri-quadratic fields: May 2020 - Feb 2021, with Amy Feaver, Dat T. Tran, and Ha T. N. Tran.

Well-rounded twists of quadratic fields: Jan 2020 - June 2020, with Dat T. Tran and Ha T. N. Tran.

Programming Skills

Python, SageMath, PariGP

Awards and Honors

2024: Fully Funded Doctoral Fellowship, Florida Atlantic University

2019: Recognized for academic excellence as one of the top-performing students in the Mathematics Department, Spring Semester, 4th Year, Ho Chi Minh University of Education.

2018: Certificate in Scientific Research, Mathematics Department, Ho Chi Minh University of Education.

2015: Consolation Prize in the High School Mathematics Contest, Dong Nai Province.

2014: 3rd Prize in the Dong Nai High School Mathematical Contest.

2013: 1st Prize in the Dong Nai High School Mathematical Contest.

2011: Xuan Loc District Award for Excellence in Secondary School Mathematics.

Other Activities

2016,2017,2018: 1st Prize in Department's Soccer Contest, Ho Chi Minh University of Education.

2018: Participation in "Run For The Heart" Event, Celadon City, Ho Chi Minh City.

2015: Voluntary Spring Campaign, Ho Chi Minh University of Education.

References

1. **Assoc. Prof. Ha Tran**
   Position: Assistant Professor
   Affiliation: Department of Science, Augustana Faculty, University of Alberta
   Email: ha.tran@concordia.ab.ca
   Telephone: +15879688880
   Website: `https://sites.google.com/site/hatrannguyenthanh/home`
2. **Dr. Dung H. Duong**
   Position: Senior Lecturer
   Affiliation: School of Computing and Information Technology, University of Wollongong
   Email: hduong@uow.edu.au
   Telephone: +61 242 214 874
   Website: `https://sites.google.com/view/dung-duong/home`