# Hoai Nam Le

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Florida Atlantic University

## Research Interests

Algebraic Number Theory, Lattices, and Cryptography

## Education

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| **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

**2023**: *"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 - `https://cm.episciences.org/12425`.

**2021**: *"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 - `https://arxiv.org/abs/2210.15049`

## Seminars and Workshops

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

**June 12th–22nd, 2023**: SEAMS school on Number Theory and Applications, The Industrial University of Ho Chi Minh City, Vietnam.

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

**Sep 5th-8th, 2017**: Workshop on Commutative Algebra, Ton Duc Thang University, Ho Chi Minh City, Vietnam.

## Projects/Research Experiments

**Well-rounded Twists of Lattices in $\mathbb{R}^3$**: Jul 2023 - at present, 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**:
**PARI/GP**:

## 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: Mathematics & Physical Sciences, Concordia University of Edmonton
   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`