# Thanh-Hung Dang | Curriculum Vitae

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🖥 https://dangthanhhung.github.io

## Personal information

**Nationality**: Vietnam

**Gender**: Male

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## Research Interest

- Algorithmic Number Theory

- Cryptography, Information Security

- Algorithms for finite field arithmetic

## Education

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|---|---|
| **Institue of Mathematics of Marseille - University of Aix-Marseille** | **France** |
| *PhD in Mathematics* | *2016–2020* |
| Supervisors: Prof. Dr. Alexis Bonnecaze and Dr. Stéphane Ballet | |
| Title: Scalar complexity of Chudnovsky-type algorithms of multiplication in finite fields | |
| **Université Sorbonne Paris Nord** | **France** |
| *Master 2* | *2013–2014* |
| Specialized in *Fundamental Mathematics and Information Protection (MFPI)* | |
| **Institute of Mathematics of Hanoi** | **Vietnam** |
| *Master 1* | *2012–2013* |
| in *Pure Mathematics* | |
| **Department of Mathematics - Vinh University** | **Vietnam** |
| *Master - Specialized in* Algebra and Number theory | *2006–2008* |
| **Department of Mathematics - Vinh University** | **Vietnam** |
| *Bachelor in Mathematics* | *2002–2006* |

## Publication

1/ Stéphane Ballet, Alexis Bonnecaze, Thanh-Hung Dang, *Optimization of the scalar complexity of Chudnovsky$^2$ multiplication algorithms in finite fields*, arXiv:2007.08203, Journal of Cryptography and Communications: Discrete Structures, Boolean Functions and Sequences (Q1-ScimagoJR) (Accepted)

2/ Stéphane Ballet, Alexis Bonnecaze and Thanh-Hung Dang, *On the Scalar Complexity of Chudnovsky$^2$ Multiplication Algorithm in Finite Fields*. In: Algebraic Informatics. CAI 2019. Lecture Notes in Computer Science, vol 11545, Springer Cham, 2019, pp. 64–75 (Q2-ScimagoJR)

## Seminar and Conference

- Weekly Seminar of Research Group "Arithmétique et Théorie de l'Information" - Institute of Mathematics of Marseille - University of Aix-Marseille, France (2016-2020)
- 17th International Conference "Arithmetic, Geometry, Cryptography and Coding Theory" at CIRM, Luminy, 10-14 June 2019.
- RAIM 2019: 11èmes Rencontres Arithmétique de l'Informatique Mathématique, at Université de Toulon, 27 - 29 Nov 2019.
- Weekly Seminar on "Algebra and Number theory" at Faculty of Mathematics, Vinh University (2006 - 2008).

## Academic Employment

2009 - Present: Lecturer at Faculty of Information and Communication Technology, Phuong Dong University, Hanoi, Vietnam

## Teaching Experience

- Probability and Statistics for IT students (Spring 2021) at Phuong Dong University

- Linear Algebra, Calculus 1 2 3 (in 2009 - 2021) for IT&Engineering Students/ Economics Students at Phuong Dong University

- Abstract Algebra, Commutative Algebra (Fall 2008) teaching assistant at Vinh University

- AS, A-Level Mathematics; Maths for SAT Test (2014-2016, 2020-2021)

## Technical/ Practical skills

Programming Languages: C/C++, Python, R, CSS, HTML

Symbolic computation: Magma, Sage

Other: LaTex

## Languages

**Vietnamese**: Mother tongue

**English**: Professional level

**French**: Elementary level

## References

1. Prof. Dr. **Alexis Bonnecaze**

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Université d'Aix-Marseille

**Email**: alexis.bonnecaze@univ-amu.fr

**Webpage**: `http://alexis.bonnecaze.perso.luminy.univ-amu.fr/`

2. Assoc. Prof. Dr. **Stéphane Ballet**

**Address**: Institut de Mathématiques de Marseille

Université d'Aix-Marseille

**Email**: stephane.ballet@univ-amu.fr

**Webpage**: `http://iml.univ-mrs.fr/~ballet/`

3. Dr. **Tran Giang Nam**
**Address**: Institute of Mathematics of Hanoi
Vietnam Academic of Science and Technology
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**Webpage**: `http://math.ac.vn/en/component/staff/?task=getProfile&staffID=39`