HOANG GIA NGUYEN

Researcher & Senior Software Developer

hoangia90@email.com **** 07 68 64 62 62 https://lipn.univ-paris13.fr/~hoanggia.nguyen/ Appartement 22, 3 allée Léon Blum, 59260, Hellemmes, Lille, France Lille. France in https://www.linkedin.com/in/hoang-gia-nguyen/ https://github.com/hoangia90

EXPERIENCE

Researcher - Post-doctorate **INRIA**

Mov 2018 - Ongoing

- Research Project : Design of Correct-by-Construction Self-Adaptive Cloud Applications Using Formal Methods
- Responsibilities : Researcher, Java Full-stack Developer & Devops Developing and Deploying JavaBIP platform on clouds: Designing and developing the formal models of micro-services while assuring the coordination in multi-cloud environment (GCP, AWS, Azure, Heroku, etc.); Developing some mechanisms for multi-cloud microservices systems such as auto deployment, backup, monitoring etc.

Ph.D. & Internship

Université Sorbonne Paris Nord

1 2014 - 2015 - 2018

- **♥** Villetaneuse, France
- Research Project : Efficient Parametric Verification of Parametric Timed Automata
- Responsibilities: Researcher, OCaml & MPI Developer Developing IMITATOR platform: Proposing, designing, optimizing and implementing parameter synthesis algorithms and its distributed version running on networks of supercomputer.

Teaching

Université Sorbonne Paris Nord & Freelance

2015 - 2018

- ♥ Villetaneuse, France
- Courses: Telecommunication and Network Application Programming (Java), Database Systems (Postgre), Networking Foundation
- Courses (Freelance): Machine Learning, Natural Language Processing (Python, Java, classification, clustering, .etc)

Member

SAVE Lab - University of Technology of Ho Chi Minh City

2014 - 2015

- ♀ Ho Chi Minh, Vietnam
- Responsibility: Researcher Working with SAVE research team in formal methods and AI directions

Developer - Part-time **Hoang Cuong Electronic**

2010 - 2012

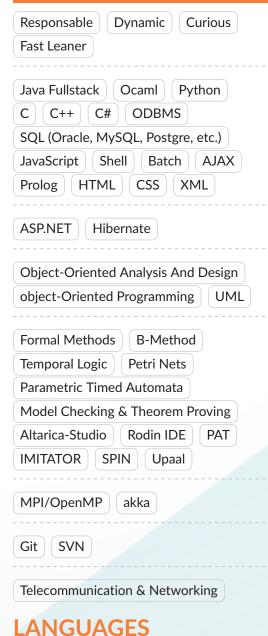
- ♀ Ho Chi Minh, Vietnam
- Responsibility: Developer (C#, Microsoft SQL, Magento CMS) Developing a Part of the ERP System of the Company

MY LIFE PHILOSOPHIES

"Less is more &

Practice makes perfect"

SKILLS



English	•••••
French	•••••
Vietnamese	•••••

SOFTWARE

IMITATOR

Parameter Synthesis for Real-Time Systems

https://www.imitator.fr/

JavaBIP

Coordination of concurrent Java components using a Java flavour of the BIP (Behaviour, Interactions, Priorities) framework

- https://github.com/sbliudze
- https://github.com/hoangia90

Other Projects

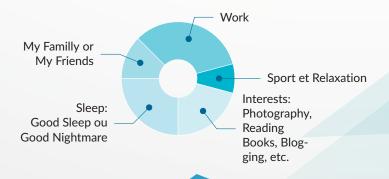
My new projects will be put on GitHub

https://github.com/hoangia90

PUBLICATIONS

- Étienne André, Hoang Gia Nguyen et Laure Petrucci. Distributed non-Zenoness parametric model checking (article de revues internationales). Submitted.
- Hoang Gia Nguyen, Laure Petrucci, et Jaco van de Pol. Layered and Collecting NDFS with Subsumption for Parametric Timed Automata.
 23nd International Conference on Engineering of Complex Computer Systems, IEEE CPS ICECCS 2018
- Étienne André, Hoang Gia Nguyen et Laure Petrucci. Efficient parameter synthesis using optimized state exploration strategies. 22nd International Conference on Engineering of Complex Computer Systems, IEEE CPS ICECCS 2017
- Étienne André, Hoang Gia Nguyen, Laure Petrucci et Sun Jun. Parametric model checking timed automata under non-Zenoness assumption. 9th NASA Formal Methods Symposium NFM 2017
- Étienne André, Giuseppe Lipari, Hoang Gia Nguyen et Youcheng Sun.
 Reachability Preservation Based Parameter Synthesis for Timed Automata. 7th NASA Formal Methods Symposium NFM 2015
- Étienne André, Camille Coti et Hoang Gia Nguyen, Enhanced Distributed Behavioral Cartography of Parametric Timed Automata, 17th International Conference on Formal Engineering Methods ICFEM 2015
- For more publications : https://lipn.univ-paris13.fr/~hoanggia.nguyen/

A DAY OF MY LIFE



EDUCATION

Ph.D. of Computer Science Université Sorbonne Paris Nord

2015 - 2018

♀ LIPN Laboratoire

Master of Computer Science

Université de Bordeaux (Computer Science) & Université de Paris 6 (Telecommunication & Networking)

2012 - 2014

♀ PUF

- M2 2nd year: 1st class student with GPA: 15.6 (Nominated for best thesis)
- M1 1st year: 2nd class student with GPA: 14.4

Bachelor of Software Engineering Hoa Sen University

2008 - 2012

♥ Ho Chi Minh, Vietnam

Gifted Student of Mathematics, Physics and Chemistry

Nguyen Chi Thanh High School

2005 - 2008

♥ Ho Chi Minh, Vietnam

REFEREES

Senior Researcher Simon BLIUDZE

- INRIA Laboratory
- Simon.Bliudze@inria.fr

Professor Étienne ANDRÉ

- LIPN Laboratory Université Sorbonne Paris Nord
- Etienne.Andre@univ-paris13.fr

Professor Laure PETRUCCI

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- ✓ Laure.Petrucci@lipn.univ-paris13.fr

Associate Professor Anne DICKY

- LaBRI Laboratory Université de Bordeaux
- Anne.Dicky@labri.fr

Associate Professor Thanh Tho QUAN

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- QTTho@cse.hcmut.edu.vn