Hoàng, Nguyễn Phước Bảo

ngpbhoang1406{AT}gmail{DOT}com
hoangnpb.com | github.com/npbhoang
Hồ Chí Minh City, Vietnam

PERSONAL

Born June 14, 1996, Man, Single.

EDUCATION

Master of Science, Computer Science and Engineering — since Winter 2020
Inter-University Master Degree Programme
at *Universidad (Autónoma | Complutense | Politécnica) de Madrid, Spain*
Concentration: *Formal Methods* — Expected graduation: *Summer 2021*
Current GPA: *9.15/10.0* (Standard scale)

Bachelor of Science, Computer Science — Winter 2014 - Summer 2018
Double Degree Programme
at *Vietnamese-German University, Vietnam*
joint with *Frankfurt University of Applied Sciences, Germany*
Thesis: *Critical Configurations on Chip-Firing Games*
Final GPA: *1.3/1.0* (German scale), *9.4/10.0* (Standard scale)

SCHOLARSHIP

Amerian Chamber of Commerce in Vietnam Scholarship	Winter 2017
Annual Merit Scholarship in Computer Science	Winter 2017
Annual Merit Scholarship in Computer Science	Winter 2016
German Academic Exchange Service Scholarship	Fall 2016
Annual Merit Scholarship in Computer Science	Winter 2015
Annual Merit Scholarship in Computer Science	Winter 2014

EMPLOYMENT

Research Assistant in Software Engineering, — since Spring 2019
at *Vietnamese-German University, Vietnam*
Supervisor: Assoc. Prof. Manuel Clavel

Software Developer, — Spring 2018 - Spring 2019
at *Axon Active, Hồ Chí Minh City, Vietnam*

RESEARCH INTEREST

Model-driven engineering: model-driven security, modeling language semantics, model analysis and validation, model-transformation.
Software security: privacy preserving, access control enforcement, formal methods.
Specification and constraint languages: semantics, implementations and proof assistants.

CURRENT WORKING TOPIC

OCL2PSQL: OCL-to-Pure-SQL, Formal mapping from OCL expressions to SQL statements.
SQLSI: SQL Security Injector, Model-driven approach for enforcing FGAC in database-centric applications.
**2FOL:* Mapping the aforementioned formalisms to First-order logic for proving correctness and scalability.

PUBLICATION

Transformation Tool Contest (to be appear)
"The TTC 2021: OCL2PSQL Case
Hoàng Nguyễn Phước Bảo, Antonio García-Dominguez, Manuel Clavel

Springer Nature Computer Science (to be appear)
A Model-Driven Approach for Enforcing Fine-Grained Access Control for SQL Queries
Manuel Clavel, Hoàng Nguyễn Phước Bảo

Lecture Notes in Computer Science, FDSE 2020: 67-86 Winter 2020
A Model-Driven Approach for Enforcing Fine-Grained Access Control for SQL Queries
Hoàng Nguyễn Phước Bảo, Manuel Clavel

J. Object Technol., Journal of Object Technology, 19(3): 3:1-13 Spring 2020
Model-based Characterization of FGAC authorization for SQL Queries
Hoàng Nguyễn Phước Bảo, Manuel Clavel

Lecture Notes in Computer Science, FDSE 2019: 185-203 Winter 2019
OCL2PSQL: An OCL-to-SQL Code-Generator for Model-Driven Engineering
Hoàng Nguyễn Phước Bảo, Manuel Clavel

CEUR Workshop Proceedings, OCL@MoDELS, 3-16 Spring 2019
Mapping OCL into SQL: Challenges and Opportunities Ahead
Manuel Clavel, Hoàng Nguyễn Phước Bảo

EXTRA-CURRICULAR ACTIVITY

IT Consultant
Hoàng Đức - Pharmaceutical & Medical Supplies co, Ltd.

Voluntary Translator
Như chưa hề có cuộc chia ly - Local TV Programme