

"We have not failed. We've just found 10,000 ways that won't work." - Thomas Edison

## Summary

**Currently:** Marie Curie Fellow at **Real-time Analytics for Internet of Sports** - RAIS project and the PhD candidate at the University of Insubria, Italy. 7+ years experience specializing in Security and Privacy research and analysis.

**Hard skill:** Data privacy, security, Android S&P analysis, privacy-preserving computation, static and dynamic analysis, authorization, cryptography, blockchain design, and environment configuration.

**Soft skill:** Communication, vivaciousness, dynamism, self-motivation, teamwork, time management, willingness to explore new topics, and adapting to a new environment.

**Research interests:** Individual privacy preferences, user-centric management system, data privacy, blockchain, trusted execution environment, privacy-preserving computation, machine learning.

## Education

### DiSTA, University of Insubria

Varese, Italy

PH.D. IN COMPUTER SCIENCE - MARIE CURIE FELLOW

Oct 2019 - Sep 2022

- **Advisor** - Prof. Elena Ferrari and Prof. Barbara Carminati
- **Topic** - RAIS-INSUB-ESR4: User-Centric Personal Data Management.
- **Thesis** - Toward privacy-aware decisions in Android apps usage

### Ho Chi Minh city University of Technology (HCMUT)

Ho Chi Minh city, Vietnam

MS.C. IN COMPUTER SCIENCE

May 2015 - May 2017

- **Advisor** - Assoc. Prof. Tran Khanh Dang
- **Thesis** - Research and Development the Access Control Model for Big Data - **Grade 10/10**
- **GPA** - **9.18/10** (Ranked 1st in Computer Science in the master course)

### University of Trento (UNITN)

Trento, Italy

ERASMUS+ STUDY AND TRAINEESHIP

Feb - Jul 2017

- **Advisor** - Prof. Fabio Massacci and Dr. Nam Ngo
- **Project** - FuturesMEX: Secure Distributed Futures Market Exchange
- **GPA** - **30/30**

### Cantho University (CTU)

Can Tho, Vietnam

B.E. IN SOFTWARE ENGINEERING

Sep 2009 - Dec 2012

- **Advisor** - M.Sc. Vo Huynh Tram
- **Thesis** - Development of the Caro algorithm on HTML5 and CSS3 - **Grade 4.0/4.0**
- **GPA** - **3.69/4** (Ranked 1st in Software Engineering Faculty - I finished in 3.5 years for the 4-year Bachelor curriculum)

## Work Experience

### STRICT SocialLab, DiSTA, University of Insubria

Varese, Italy

RESEARCHER & DEVELOPER

2019 - onward

- **Projects**
  - Real-time Analytics for Internet of Sports (RAIS), N. 813162, funded by Marie Skłodowska-Curie Innovative Training Networks
  - CybersecurityCompeteNCEfor Research and Innovation (CONCORDIA), N. 830927, funded by H2020 Research and Innovation program
- **Secondments**
  - Toward a privacy-preserving analysis for motion data detection in the Hockey field @ Kinetic Analysis, Netherland
  - Privacy-preserving data transfer according to user privacy preferences @ Internet Computing Lab (LinC), UCY, Cyprus
- **Technologies:** NodeJS, Android platform, natural language processing, static analysis, dynamic analysis, BRNN, FHE, TEE, Fog computing

### D-STAR Lab, Ho Chi Minh city University of Technology

Ho Chi Minh city, Vietnam

RESEARCHER, DEVELOPER, & TEACHING ASSISTANT

2015 - 2017

- **Projects**
  - Developing a Storage Model and Access Control Method for Big Data Management Systems in Universities, funded by DoST-CT
  - A new generation access control model for privacy preserving in NoSQL Document data, funded by VNUHCM.
  - FuturesMEX: Secure, distributed futures market exchange, ERASMUS+ Traineeship at Trento University - Trento, Italy
- **Subject:** Advanced Database System (2015 - 2016)
- **Technologies:** HCMUT {MongoDB, XACML, ABAC} - UNITN {Market exchange, ZKproof, Blockchain, Hyperledger Fabric, MPC}

## Information Assurance Apartment, FPT University

VISITING LECTURER & RESEARCHER

- Blockchain Mentor at FUNIX
- **Subject:** Database System (2018 – 2019), Database management system (2019), Operating System (2018 – 2019)

Can Tho, Vietnam

2018 – 2019

## Information Technology Apartment, Can Tho University of Technology

FULL-TIME LECTURER & RESEARCHER

- **Subject:** Algorithm (2013 – 2015), Operating System (2017 – 2019), Clean Code (2018 – 2019)

Can Tho, Vietnam

2013 – 2019

## Grants & Awards

- 2019-2022 **Marie Curie Fellowship**, Real-time Analytics for Internet of Sports (RAIS) Varese, Italy
- 2017 – **Excellent Lecturer Award**, Awarded merit certificate granted by the headmaster of the Cantho University of Technology for the excellent academic activities Can Tho, Vietnam
- 2018 of Technology for the excellent academic activities
- 2017 **Best Master's Thesis Award**, Awarded certificate for the best master's thesis in the computer science course at HCMUT – VNUHCM Ho Chi Minh city, Vietnam
- 2015 – **Excellent Master Student Award**, Awarded merit certificate granted by the headmaster of HCMUT – VNUHCM for outstanding postgraduates in the master course Ho Chi Minh city, Vietnam
- 2017 **Erasmus + Scholarship**, Awarded student exchange scholarship program by HCMUT (Vietnam) and UNITN (Italy) for outstanding student Trento, Italy
- 2009 – **Excellent Student Award**, Awarded merit certificate granted by the headmaster of CTU for outstanding undergraduates in the bachelor course Can Tho, Vietnam
- 2013
- 2009 - 2012 **CTU Scholarship**, Awarded to only 5% of the students in my college Can Tho, Vietnam

## Academic Activities

Since 2021 **Conference Reviewer**, ASONAM, CODASPY, ICDCS

Since 2019 **Journal Reviewer**, FGCS, CLCO, COMPELECENG, JoCCASA, IJMEDI

## References

### Prof. Elena Ferrari

DiSTA, UNIVERSITÀ DEGLI STUDI DELL'INSUBRIA

- **Role:** PhD supervisor - **Email:** elena.ferrari\_at\_uninsubria.it

Varese, Italy

2019 – 2022

### Prof. Barbara Carminati

DiSTA, UNIVERSITÀ DEGLI STUDI DELL'INSUBRIA

- **Role:** PhD co-supervisor - **Email:** barbara.carminati\_at\_uninsubria.it

Varese, Italy

2019 – 2022

### Dr. Maarten Gijssels

CEO OF KINETIC ANALYSIS

- **Role:** Secondment supervisor - **Email:** mpe.gijssels\_at\_kinetic-analysis.com

's-Hertogenbosch, Netherlands

Jan – Jun 2022

## Publications (Selected)

- 2022 **Under submission**, "PriApp-Install: learning privacy preferences on Android app installation" 1st author
- 2022 **Data Science and Engineering**, "A Risk Estimation Mechanism for Android Apps based on Hybrid Analysis" 1st author
- 2022 **PeerJ Computer Science**, "BMDD: A novel approach for IoT platform (Broker-less and Microservice architecture, Decentralized identity, and Dynamic transmission messages)" co-author
- 2021 **IEEE SmartIoT**, "A Risk Assessment Mechanism for Android Apps" 1st author
- 2020 **IEEE TrustCom**, "DEM-COD: Novel access-control-based cash on delivery mechanism for decentralized marketplace" 1st author
- 2019 **CISIS**, "Toward an Privacy Protection based on Access Control Model in Hybrid Cloud for Healthcare Systems" 1st author

## Social activities

### The Green Road Charity Group (Nhóm thiện nguyện Con Đường Xanh)

Co-FOUNDER

- My wife and I are two co-founders of "Green Road – Con Đường Xanh" group. We have activities to build shelters for the poor, raise money to buy milk and food for children, build roads and bridges in disadvantaged rural areas, help people isolated in quarantine areas due to Covid-19, and many other calls in Vietnam. Since 2020, our group has called for donations to implement over 500 activities with a total budget of more than 4 billion VND (c.a. € 165.000). If you are a donator, please see the activities we post on the personal Facebook pages of **my wife** and **me**.

Vietnam

Since 2018