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| **HA XUAN SON** |  |
| Padiglione Rossi Via O. Rossi, 9 - 21100 Varese (VA), Italy |
| Icon request: fa-google-scholar · Issue #17287 · FortAwesome/Font-Awesome ·  GitHub <https://bit.ly/3LBr5Ex> | H-index: 11 |
| [sha@uninsubria.it](mailto:sha@uninsubria.it) |  +39 327 7654 131 |
| LinkedIn https://www.linkedin.com/in/ha-xuan-son-ha-4b95a7235/ |
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**Hard skill:** Data privacy, security, Android S&P analysis, privacy-preserving computation, static and dynamic analysis, authorization, cryptography, blockchain design, environment configuration.

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

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

**EDUCATION AND TRAINING**

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| **2019 - 2022** | **PhD student in Computer Science – Marie Curie Fellow**  University of Insubria, Italy (<https://www.uninsubria.it/>) – RAIS project (<https://rais-itn.eu/>) |
| Advisor | Prof. Elena Ferrari and Prof. Barbara Carminati |
| Topic | **RAIS-INSUB-ESR4***: ‘User-Centric Personal Data Management’* (<https://rais-itn.eu/fellow/ha-xuan-son>) |
| **2015 – 2017** | **M.Sc. in Computer Science**  *Ho Chi Minh city University of Technology (HCMUT)*, Vietnam (<http://www.hcmut.edu.vn/en>) |
| Advisor | Assoc. Prof. Tran Khanh Dang |
| GPA | **9.18/10** (Ranked 1st in Computer Science in the master course) |
| Thesis | ‘*Research and Development the Access Control Model for Big Data*’. **Grade 10/10** |
| **Feb – Jul 2017** | **Erasmus+ Study and Traineeship**  *University of Trento (UNITN)*, Italy (<https://www.unitn.it/en>) |
| Advisor | Prof. Fabio Massacci and Dr. Nam Ngo |
| GPA | **30/30** |
| Research Project | FuturesMEX - Secure Distributed Futures Market Exchange  ([https://securitylab.disi.unitn.it/doku.php?id=fintech&s[]=futuremex](https://securitylab.disi.unitn.it/doku.php?id=fintech&s%5b%5d=futuremex)) |
| **2009 – 2013** | **B.E. in Software Engineering**  *Cantho University (CTU)*, Vietnam (<https://en.ctu.edu.vn/> ) |
| Supervisor | M.Sc. Vo Huynh Tram |
| GPA | **3.69/4** (Ranked 1st in Software Engineering Faculty, Cantho University, Vietnam) |
| Thesis | ‘*Development of the Caro algorithm on HTML5 and CSS3*’. **Grade 4.0/4.0** |

**WORK EXPERIENCE**

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|  | **Researcher and Developer** |
| 2019 – 2022 | *STRICT SociaLab, DiSTA, University of Insubria,* Italy (<https://strict.dista.uninsubria.it/>) |
| Advisor | Prof. Elena Ferrari and Prof. Barbara Carminati |
| Project | * Real-time Analytics for Internet of Sports (RAIS), under grant agreement No 813162, funded by Marie Skłodowska-Curie Innovative Training Networks * Cyber security cOmpeteNCe fOr Research anD InnovAtion, under grant agreement No 830927 (CONCORDIA), funded by H2020 Research and Innovation program |
| Technologies | NodeJS, Android platform, natural language processing, static analysis, dynamic analysis, homomorphic encryption, trusted execution environment, edge computing, BERT. |
| Jan – Jun 2022 | Kinetic Analysis, Netherland (<https://www.kinetic-analysis.com/>) |
| Advisor | Prof. Elena Ferrari, Prof. Barbara Carminati, and Dr. Maarten Gijssel |
| Project | Balancing between privacy-preserving analysis and convenience-service providing for motion data in the Hockey field |
| Technologies | NodeJS, python, homomorphic encryption, trusted execution environment, Bidirectional Recurrent Neural Network |
| Jun – Sep 2021 | Belfer center, Harvard Kennedy school, Harvard University, USA (https://www.belfercenter.org/) |
| Advisor | Prof. Elena Ferrari and Dr. Julia Voo |
| Project | Determining whether China uses Twitter to stimulate tensions between Europe and the United States in the period surrounding the 2020 Presidential election |
| Technologies | NodeJS, NLP, Twitter API, Word2Vec, BERT, NLP Stanford parser, Python |
| Jan – Jun 2021 | Internet Computing Lab (LInC), University of Cyprus, Cyprus (<http://linc.ucy.ac.cy/>) |
| Advisor | Prof. Elena Ferrari, Prof. Barbara Carminati, and Prof. George Pallis |
| Project | Privacy-preserving data transfer according to user privacy preferences |
| Technologies | NodeJS, Fogify, trusted execution environment, fog computing |
| 2015 – 2019 | *D-STAR Lab, Ho Chi Minh city University of Technology*, Vietnam |
| Advisor | Assoc. Prof. Tran Khanh Dang |
| Project | * Developing a Storage Model and Access Control Method for Big Data Management Systems in Universities (2015 – 2018), funded by DoST–CT |
|  | * A new generation access control model for privacy preserving in NoSQL Document data (2018 – 2019), funded by VNUHCM |
| Technologies | NodeJS, Java, XACML, ABAC |
| Feb – Jul 2017 | *Security Lab, DISI, University of Trento*, Italy (<https://securitylab.disi.unitn.it/>) |
| Advisor | Prof. Fabio Massacci |
| Project | FuturesMEX – A research experiment on Secured Distributed Futures Market Exchange based on a Blockchain framework |
| Scientific topics | Market exchange, anonymous communications, zero-knowledge, blockchain, multi-party computation |
| Technologies | Java, C++, Zero knowledge proof, MPC, Hyperledger Fabric, Vagrant, Blockchain |
| 2013 – 2019 | **Lecturer**  *Cantho University of Technology*, Vietnam |
| Subject | Algorithm (2013 – 2015), Operating System (2017 – 2019), Clean Code (2018 – 2019) |
| 2018 – 2019 | **Visiting Lecturer**  *FPT University*, Can Tho campus, Vietnam |
| Subject | Database System (2018 – 2019), Operating System (2018 – 2019) |
| 2015 – 2017 | **Teaching assistant**  *Ho Chi Minh city University of Technology*, Vietnam |
| Work | Manage at Advanced Computing Lab (AC - Lab) |
| Subject | Advanced Database System (2015 – 2016) |

**PROFESSIONAL ACTIVITIES**

I **Journal reviewers:** Future Generation Computer Systems, Computers & Electrical Engineering, Journal Cloud Computing, Springer Computing Journal, International Journal of Medical Informatics.

I **Conference reviewers:** ASONAM 2021; CODASPY 2022, ICDCS 2022

**PROGRAMING SKILLS**

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| **Front-end** | HTML, CSS, Javascript, Wordpress, Latex | **Database** | MongoDB, SQL, SQLite |
| **Back-end** | NodeJS, Java, C++, Python | **Operating System** | Android, MacOS, Windows, Linux |

**LANGUAGE SKILLS**

I **Vietnamese** – Mother tongue I **English** – Fluently

**HONOURS AND AWARDS**

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| **Marie Curie Fellowship** | Awarded a Marie Curie Fellowship (2019 – 2022) |
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| **Excellent Lecturer Award** | Awarded merit certificate granted by the headmaster of the Cantho University of Technology for the excellent academic activities (2017 – 2018) |
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| **Excellent Master Student Award** | Awarded merit certificate granted by the headmaster of HCMUT – VNUHCM for outstanding postgraduates in the master course (2015 – 2017) |
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| **Best Master’s Thesis Award** | Awarded certificate for the best master’s thesis in the computer science course at HCMUT – VNUHCM (2017) |
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| **Erasmus + Scholarship** | Awarded student exchange scholarship program by HCMUT (Vietnam) and UNITN (Italy) for outstanding student (2017) |
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| **Excellent Student Award** | Awarded merit certificate granted by the headmaster of CTU for outstanding undergraduates in the bachelor course (2009 – 2013) |
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| **CTU Scholarship** | Awarded to only 5% of the students in my college (in 2009, 2010, 2011, 2012) |

**REFERENCES**

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| --- | --- |
| **Prof. Elena Ferrari (PhD supervisor)** | [elena.ferrari@uninsubria.it](mailto:elena.ferrari@uninsubria.it) |
| DiSTA, Università degli Studi dell'Insubria | |
| **Prof. Barbara Carminati (PhD co-supervisor)** | [barbara.carminati@uninsubria.it](mailto:barbara.carminati@uninsubria.it) |
| DiSTA, Università degli Studi dell'Insubria | |
| **Dr. Maarten Gijssel (Secondment supervisor)** | mpe.gijssel@kinetic-analysis.com |
| CEO of Kinetic analysis company (<https://www.kinetic-analysis.com/>) | |
| **Prof. Fabio Massacci (Traineeship supervisor)** | [fabio.massacci@unitn.it](mailto:fabio.massacci@unitn.it) |
| Chair at Vrije Universiteit, Netherlands - Prof. at University of Trento, Italy | |

**SELECTED PUBLICATION**

1. **Ha Xuan Son** et al. “A Risk Estimation Mechanism for Android Apps based on Hybrid Analysis.” Data Science and Engineering Journal (accepted).
2. **Ha Xuan Son** et al. “PriApp-Install: learning privacy preferences on Android app installation.” under submission.
3. Lam Nguyen, **Ha Xuan Son** et al. “BMDD: A novel approach for IoT platform (Broker-less and Microservice architecture, Decentralized identity, and Dynamic transmission messages).” *PeerJ* *Computer Science*, 2022.
4. **Ha Xuan Son** et al. “A Risk Assessment Mechanism for Android Apps.” IEEE SmartIoT, 2021.
5. **Ha, Xuan Son**, et al. “DEM-COD: Novel access-control-based cash on delivery mechanism for decentralized marketplace.” IEEE TrustCom, 2020.
6. **Ha Xuan Son** et al. “Toward an Privacy Protection based on Access Control Model in Hybrid Cloud for Healthcare Systems.” CISIS 2019.

**SOCIAL ACTIVITIES**

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. In the last two years, our group has called for donations to implement over 500 activities with a total budget of more than 4 billion VND ~ € 165.000.