

Matthieu Jimenez

Ph.D. in Computer Science

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in [matthieujimenez](#)

📻 [electricalwind](#)

29 y.o – French

Degrees

- 2018 **Ph.D in Computer Science**, *SnT*, University of Luxembourg, Luxembourg.
Title: Evaluating Vulnerability Prediction Models, Grade: Excellent
- 2014 **Engineer's degree in Computer Science**, *Ecole Polytechnique Universitaire Polytech Nice Sophia*, Sophia Antipolis, France.
Equivalent to MSc in Computer Science, Major: Security (Valedictorian).
- 2013 **Engineering Certificate**, *Ecole Polytechnique de Montréal*, Montréal, Canada.
obtained through a one year exchange with a grade of 4,38/5

Publications

- 2019 **The Importance of Accounting for Real-World Labelling When Predicting Software Vulnerabilities**, *FSE'19*, Distinguished Paper Award, Matthieu Jimenez, Renaud Rwemalika, Mike Papadakis, Federica Sarro, Yves Le Traon and Mark Harman.
- 2018 **Evaluating Vulnerability Prediction Models**, *Thesis*, Matthieu Jimenez.
Are mutants really natural? A study on how “naturalness” helps mutant selection, *ESEM'18*, Matthieu Jimenez, Thierry Titchou Chekam, Maxime Cordy, Mike Papadakis, Marinos Kintis, Yves Le Traon and Mark Harman.
Enabling the Continous Analysis of Security Vulnerabilities with Vul-Data7, *SCAM'18*, Matthieu Jimenez, Yves Le Traon, Mike Papadakis.
On the impact of tokenizer and parameters on n-gram based code analysis, *ICSME'18*, Matthieu Jimenez, Maxime Cordy, Yves Le Traon, Mike Papadakis. including an artefact paper
- 2017 **Analyzing complex data in motion at scale with temporal graphs**, *SEKE'17*, Thomas Hartmann, Francois Fouquet, Matthieu Jimenez, Romain Rouvoy and Yves Le Traon.
- 2016 **An Empirical Analysis of Vulnerabilities in OpenSSL and the Linux Kernel**, *APSEC'16*, Matthieu Jimenez, Mike Papadakis and Yves Le Traon.
Vulnerability Prediction Models: A case study on the Linux Kernel, *SCAM'16*, Jimenez, Matthieu and Papadakis, Mike and Le Traon, Yves.
Profiling android vulnerabilities, *QRS'16*, Matthieu Jimenez, Mike Papadakis, Tegawendé Bissyande, François D Assise and Jacques Klein.
- 2014 **An architecture to support the collection of big data in the internet of things**, *SERVICES'14*, Cyril Cecchinell, Matthieu Jimenez, Sébastien Mosser and Michel Riveill.

Experience

- August 2020 – today **Research Associate**, *SnT*, University of Luxembourg, Luxembourg.
Research on Vulnerability Prediction Models and Software Evolution.
- 2018 – 2020 **R&D Engineer**, *DataThings*, Luxembourg, Luxembourg.
Fullstack developer (Java, Typescript, React) on various data analytics projects (Smart-Grid, Advertisement, Manufacturing) and involved in the development of the core indexing structures of the Greycat technology (C).
- 2014–2018 **Ph.D Student**, *SnT*, University of Luxembourg, Luxembourg.
Research on Vulnerability Prediction Models resulting in 9 international publications and one award.
Area of Research : Security, Machine Learning, Software Engineering and Data Mining
Teaching: Introduction to Computer Science, Testing, Algorithmics
- 2014 **Security Trainee**, *StreamMind*, Paris, France.
6 months Internship on SEPAMail™security. Assessment of the implementation of security settings, definition of new standard for the SEPAMail™network and development of new functionalities. (C++)
- 2013 **Security Trainee**, *Orange*, Valbone, France.
4 months Internship on IPv6 security. Technological watch on IPv6 security. Test of the different Neighbour Discovery monitoring solutions for IPv6 and suggestion of security settings for Orange IPv6 server.

Computer Skills

- OS Linux, MacOS, Windows
- Programmation C, Java, Typescript, Kotlin, Python, C++, SQL, HTML, BASH, L^AT_EX, Markdown
- Framework Git, Maven, Weka, React, Webpack, Docker, Gitlab CI, Greycat
- DB Greycat, Rocks/LevelDB, Postgre, Neo4J, MongoDB
- Others Modelling, Data Structures, Network

Languages

- English **fluent**.
- French **native language**.
- German **basics**.
- Luxembourgish **basics**.

References

- Pr. Yves Le Traon**, *SnT*, University of Luxembourg, (+352) 46 66 44 5262, yves.letraon@uni.lu.
- Dr. Maxime Cordy**, *SnT*, University of Luxembourg, (+352) 46 66 44 9429, maxime.cordy@uni.lu.
- Dr. Michail Papadakis**, *SnT*, University of Luxembourg, (+352) 46 66 44 5672, michail.papadakis@uni.lu.

Hobbies

Swimming, Wake/Snow boarding, RolePlaying, Reading