

RANDRIANAINA Georges Aaron

Malagasy,
PhD Candidate in Software Engineering

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Education

- 2021–2024 **PhD, Computer Science**,
Université de Rennes,
Software Engineering.
- 2019–2021 **Magister's Degree, Computer Science**,
École Normale Supérieure de Rennes,
Research-oriented curriculum.
- 2019–2021 **Master's Degree, Computer Science**,
Université de Rennes,
Computer Science Research (SIF) curriculum.
- 2016–2019 **Bachelor's Degree, Computer Science**,
Université de Lille, Villeneuve-d'Ascq, France.

Research

- 2021–2024 **PhD Candidate**, *DiverSE Team, IRISA, Rennes, France,*
Smart Building of Software Variants.
Supervisors: Mathieu Acher, Djamel Eddine Khelladi and Olivier Zendra
- Jul. 2021–Sept. 2021 **Research Engineer**, *DiverSE Team, IRISA, Rennes, France,*
Incremental Build of Software Configurations.
- Feb. 2021–Jul. 2021 **Research Internship**, *DiverSE Team, IRISA, Rennes, France,*
Incremental Build of Linux Kernel Configurations.
Supervisors: Mathieu Acher, Djamel Eddine Khelladi and Jean-Marc Jézéquel
- Jun. 2020–Aug. 2020 **Research Internship**, *DiverSE Team, IRISA, Rennes, France,*
Incremental Compilation of Linux Kernel Configurations.
Supervisor: Mathieu Acher
- Nov. 2019–May. 2020 **Research Project**, *DiverSE Team, IRISA, Rennes, France,*
Uniform random sampling on SAT formula: Application to the Linux Kernel.
Supervisor: Mathieu Acher
- Apr. 2019–Jun. 2019 **Research Internship**, *Spirals, Inria Lille, Villeneuve-d'Ascq, France,*
Optimization of Python's energy consumption.
Supervisor: Romain Rouvoy
- Jan. 2019–Apr. 2019 **Research Project**, *CFHP, CRISAL, Villeneuve-d'Ascq, France,*
Contribution to integro-differential elimination.
Supervisor: François Lemaire

Service

- 2023 **Program Committee**,
6th International Workshop on Variability and
Evolution of Software-Intensive Systems.

Interests

*Software Engineering, Software Product-Lines, Highly-Configurable Systems,
Build Systems and Compilers.*

Teaching

- Fall 2022 **M1 – Ingénierie Logicielle, ISTIC, Université de Rennes,**
Programmation Dirigée par la Syntaxe (Compiler's course).
- Fall 2021, 2022 **L3 – Informatique, ISTIC, Université de Rennes,**
Bases de la Modélisation Objet (Introduction to Object-modeling).

Publications

Mathieu Acher, Luc Lesoil, **Georges Aaron Randrianaina**, Xhevahire Tërnavà, and Olivier Zendra. A call for removing variability. In *Proceedings of the 17th International Working Conference on Variability Modelling of Software-Intensive Systems, VaMoS '23*, page 82–84, New York, NY, USA, 2023. Association for Computing Machinery.

Georges Aaron Randrianaina. Incremental Build of Linux Kernel Configurations. In *EuroDW 2022 - 16th EuroSys Doctoral Workshop*, Rennes, France, April 2022.

Georges Aaron Randrianaina, Djamel Eddine Khelladi, Olivier Zendra, and Mathieu Acher. Towards Incremental Build of Software Configurations. In *44th International Conference on Software Engineering – New Ideas and Emerging Results (ICSE-NIER'22)*, Pittsburgh, PA, United States, May 2022.

Georges Aaron Randrianaina, Xhevahire Tërnavà, Djamel Eddine Khelladi, and Mathieu Acher. On the Benefits and Limits of Incremental Build of Software Configurations: An Exploratory Study. In *ICSE 2022 - 44th International Conference on Software Engineering*, pages 1–12, Pittsburgh, Pennsylvania / Virtual, United States, May 2022.

Xhevahire Tërnavà, Luc Lesoil, **Georges Aaron Randrianaina**, Djamel Eddine Khelladi, and Mathieu Acher. On the Interaction of Feature Toggles. In *VaMoS 2022 - 16th International Working Conference on Variability Modelling of Software-Intensive Systems*, The Proceedings of 16th International Working Conference on Variability Modelling of Software-Intensive Systems, Florence, Italy, February 2022.