

Thibaut Marty – Curriculum Vitae

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| Birth date | July 21 1993 |
| Nationality | French |
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Experience

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| 2023 – | Associate professor, ESOS project, INSA Rennes, France |
| 2022 – 2023 | Postdoctoral researcher, Orange Innovation |
| 2017 – 2022 | PhD student at University of Rennes I, hosted within IRISA/Inria, under the supervision of Steven Derrien and Tomofumi Yuki. Topic: timing speculation for hardware accelerators Teaching duties at University of Rennes I and ENS Rennes |

Publications

- Marty, T. (2022, mars). *Spéculation temporelle pour accélérateurs matériels* [theses, Université de Rennes 1]. <https://inria.hal.science/tel-03925783>
- Derrien, S., Marty, T., Rokicki, S. et Yuki, T. (2020). Toward Speculative Loop Pipelining for High-Level Synthesis. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, 39(11), 4229-4239. <https://doi.org/10.1109/TCAD.2020.3012866>
- Marty, T., Yuki, T. et Derrien, S. (2020). Safe Overclocking for CNN Accelerators Through Algorithm-Level Error Detection. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, 39(12), 4777-4790. <https://doi.org/10.1109/TCAD.2020.2981056>

- Marty, T., Yuki, T. et Derrien, S. (2018, décembre). *Enabling Overclocking Through Algorithm-Level Error Detection*. 2018 International Conference on Field-Programmable Technology (FPT) (p. 174-181). <https://doi.org/10.1109/FPT.2018.00034>
- Kritikakou, A., Marty, T. et Roy, M. (2017). DYNASCORE: DYNAMIC Software CONTROLLER to Increase RESOURCE Utilization in Mixed-Critical Systems. *ACM Trans. Des. Autom. Electron. Syst.*, 23(2), 13:1-13:26. <https://doi.org/10.1145/3110222>

Service

- 2024** Co-organizer of a special session at Euromicro Digital System Design 2024 on the topic: “Sustainable Digital System Design”
- 2023** – Sustainable Development manager of EII department, INSA Rennes
- 2023** – Co-animator, transversal programs “Energy efficiency and sustainable electronics” of IETR

Education

- 2017 – 2022** PhD in Computer Science
University of Rennes I
- 2017** Research internship (six months)
IRISA/Inria, Rennes, France
Supervisor: Steven Derrien
- 2016** Research internship (four months)
IMEC, Leuven, Belgium
Supervisor: Francky Catthoor
- 2015 – 2017** MSc in Computer Science
University of Rennes I
- 2015 – 2017** *Magistère* in Computer Science
ENS Rennes

- 2015** Research internship (three months)
IRISA/Inria, Rennes, France
Supervisor: Angeliki Kritikakou
- 2014 – 2015** BSc in Computer Science
University of Rennes I
- 2013 – 2014** Engineering school (first year only)
Supélec
- 2011 – 2013** Two-year university degree in Computer Science and Elec-
tronics
University of Angers

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