Lorenzo Sonnino

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Personal Data

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Date of Birth:	August 1999
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Education

2024 - 2027 **Keio University**, Tokyo, Japan.
PhD student in Computer Architecture under the supervison of Prof. M. Kondo.

2023 - 2024 **Keio University**, Tokyo, Japan.
Independent researcher in Computer Architecture with the Kondo lab.

2021 - 2023 **Keio University**, Tokyo, Japan.
Master Degree Computer Science, enrolled in the Amano-Kondo Lab.

2020 - 2023 **Catholic University of Louvain (UCLouvain)**, Louvain-La-Neuve, Belgium.
Master Degree Electrical Engineering.

2017 - 2020 **Catholic University of Louvain (UCLouvain)**, Louvain-La-Neuve, Belgium.
B.Sc. Engineering option in Electronics and Computer Science.

2011 - 2017 **Institut Saint-Boniface Parnasse**, Brussels, Belgium.
Secondary School, Orientation: Latin - Mathematics.

Experiences

2021 - 2023 **Judo Club**, Keio University's Judo club.

Summer vacations **Private tutor**, Mathematics and Computer Science

2016 - 2017 **Mini Entreprises**, Enterpreneurial Skill Pass

2011 - 2017 **Water-Polo Player**, Royal Ixelles Swimming, Club (RISC).

2011 - 2016 **Water-Polo Player**, Swimming Club Calypso (SCC).

2007 - 2017 **Musical instrument**, Flute player at Academie d'Ixelles.

2003 - 2012 **Swimming**, Cercle de Natation d'Ixelles (CNI).

Languages

French:	Native	English:	Advanced (C1)	Japanese:	Basic
Italian:	Native	Dutch:	Scolar Level (B1)		

Computer Skills

Simulation Software:	Synopsys DesignCompiler NX, Cacti, Timeloop/Accelergy, Intel Quartus Prime, Intel ModelSim, LTSpice, MathWorks Matlab.
Programming Languages:	Python, C, SystemVerilog, Java, Matlab, zsh/Bash/Shell, SQL amongst other.
Familiar Libraries:	numpy, scipy, PyTorch, TensorFlow, imageio, scikit-learn, opencv amongst other.
Other Software:	Docker, Git, LaTeX, JetBrains suite, Microsoft Office PowerPoint, Adobe Illustrator, Affinity v2 suite, Blender, The Foundry Nuke.

Publications and conferences

2024 **DATE'24**, DAISM: Digital Approximate In-SRAM Multiplier-based Accelerator for DNN Training and Inference
Lorenzo Sonnino, Shaswot Shresthamali, Yuan He, Masaaki Kondo

2022 **SWoPP22**, An SRAM-Based Approximate Digital Multiplier for DNN Acceleration
Lorenzo Sonnino, Shaswot Shresthamali, Yuan He, Masaaki Kondo