# GIULIANO SISTO in







giuliano.sisto1@gmail.com → +32 470 13 63 06 → +39 340 41 09 479 • Emile van Arenberghstraat 23, 3000, Leuven, Belgium

### ABOUT ME

I am an enthusiastic SoC Researcher, with Physical Design expertise and a keen eye for design methodologies. I thrive in contexts where "what?" is always followed by "how?". Currently, I am looking for a chance to boost my knowledge on Computer Architectures while leveraging my expertise in SoC design. My ambition is to steer the semiconductor industry towards the path of Architecture-Design Co-Optimization, as I strongly believe that it will be a key enabler for next generation digital ICs.

### EDUCATION

Doctor of Philosophy (PhD), Electrical Engineering

Ecole polytechnique de Bruxelles – Université Libre de Bruxelles

- **■** Oct 2018 − 2022(expected)
- Leuven, BE
- Thesis: "Design Enablement of integrated circuts using sub-5nm technology process and 3D integration"
- Guest lecturer ETH Zurich, Politecnico di Bari

Exchange Student, Electronic Systems

Department of Electrical Engineering – Technology University of Eindhoven

Feb 2017 - July 2017

Eindhoven, NL

MSc, Electrical Engineering, Micro Electronics Systems

Dipartimento di Ingegneria Elettrica e dell'informazione – Politecnico di Bari

**i** Jan 2016 – Jul 2018

Bari, IT

### EXPERIENCE

### Researcher

### IMEC

Nov 2021 - Present

Leuven, BE

#### PhD Candidate

Cadence Design Systems - IMEC

Ct 2018 - 2021

- Leuven. BE
- Proposal and implementation of new methods to enable advanced technologies for front-end and back-end digital IC design
- Advanced CMOS technology nodes (sub-5nm FinFET GAAFET CFET) and 3D-IC
- Industrial design benchmarking: ARM RISC-V NVDLA
- European project technical lead for 2nm technology node research

### Engineering Internship

#### Huawei Technologies

- 苗 Feb 2018 Jul 2018
- Sophia-Antipolis, FR
- Architecture design and physical implementation of digital filters for All Digital PLLs

### LIST OF PUBLICATIONS

# TECHNICAL SKILLS

TCL Bash Linux

Verilog, VHDL

Python Git

Matlab

# SOFT SKILLS

Resilience | Problem solving

Empathy Project management Affinity to learn | Team player

Public Speaking/Presenting

### LANGUAGES

Italian English French

Dutch



# AWARDS

**Q** ERASMUS+ for Traineeship Scholarship

TUCEP

**2**018

Bari,IT

**♀** ERASMUS+ Scholarship

Politecnico di Bari

**2**017

Bari,IT

# INTERESTS

Videogames | Board/Card games eSports ) Soccer Cinema Travel Music

- R.Chen, G.Sisto\* et al., "Design and Optimization of SRAM Macro and Logic Using Backside Interconnects at 2nm Node", IEDM 2021, San Francisco, USA (\*authors contributed equally to the work)
- G.Sisto et al., "Design And Sign-off Methodologies For Wafer-To-Wafer Bonded 3D-ICs At Advanced Nodes (invited)", SLIP 2021 (co-hosted with ICCAD 2021), Virtual Event
- G.Sisto et al., "Design And Signoff Methodologies For Wafer-To-Wafer Bonded 3D-ICs At Advanced Nodes", SLIP 2021 (co-hosted with ICCAD 2021), Virtual
- G.Sisto et al., "IR-Drop Analysis of Hybrid Bonded 3D-ICs with Backside Power Delivery and μ- & n- TSVs", IITC 2021, Kyoto,
- G.Sisto et al., "Design enablement of fine pitch face-to-face 3D system integration using die-by-die place & route", 3DIC 2019, Sendai, Japan