

VASIL YORDANOV

EDUCATION

- 01.2024 - Currently **Purdue University**
MS Semiconductors and Microelectronics
- 09.2022 - 08.2023 **University Paris-Saclay**
M.Sc General Physics
- 09.2018 - 05.2022 **University of Glasgow**
B.Sc (Honours) Theoretical Physics (1st Class)
- 09.2020 - 05.2021 **University Paris-Saclay**
Erasmus exchange student

RESEARCH EXPERIENCE

- 03.2024 - 09.2024 **imec**
Department of Experimental Materials and Material Transfer
- Project: *Polymer residue cleaning from 2D materials*
Supervisor: Dr. Jean-Francois de Marneffe
Research and responsibilities:
- Developed rigorous testing protocols to compare plasma etching and UV curing
 - Proactively sought to expand the cross-team collaborations to explore different approaches
 - Created my own automation scripts for experiment description and book-keeping using JS and Obsidian
- 04.2023 - 09.2023 **imec**
Department of Experimental Photolithography Materials, MSc project
- Project: *EUV electronic processes in photoresists*
Supervisors: Dr. Roberto Fallica, Prof Stefano Nannarone
Research and responsibilities:
- Collaborated with chemists and physicists to understand and improve the in-house model
 - Wrote extensive project and code documentation using Jekyll

PUBLICATIONS

V.Yordanov, F. Isaule
Mobile impurities interacting with a few one-dimensional lattice bosons 2023 J. Phys. B: At. Mol. Opt. Phys. 56 045301 10.1088/1361-6455/acb51b

R. Fallica, V. Yordanov, N. Mahne, A. Malvezzi, A. Berti, M. Setten, D. Simone, S. Nannarone
Nonthermal electronic distribution in photoresists exposed to extreme ultraviolet light: a semiclassical kinematic photoemission model (to be submitted)

WORK

- 08.2023 - 04.2024 Volunteer open-source work on SkyWater 130nm PDK and Magic VLSI
- 10.2022- 04.2023 Junior PDK Engineer at GlobalFoundries, Sofia
- 03.2022 - 06.2022 Part-time mathematics teacher at a local school

LEADERSHIP

- 2024 - Currently European Chips Skills Academy student ambassador
- Organizer of the first Student Summit at imec

SKILLS

Python (scipy, pandas, matplotlib), C++, Bash, GNU/Linux (Ubuntu, Arch, NixOS), GIT

TRAININGS

- imec academy Advanced Lithography Processes, part 1 (30 hours)
- imec academy Advanced Lithography Processes, part 2 (30 hours)
- imec academy Beyond CMOS (25 hours)
- imec academy Nanoscale CMOS Technology (20 hours)

AWARDS

- 2017 58th IMO - part of extended Bulgarian Team (top 12 in the nation)
- 01.2017 Week of Olympiad Mathematics, 3rd Award
- 09.2016 7th International Festival of Mathematicians, 2nd Team Place (captain)
- 09.2015 2nd Iranian Geometry Olympiad, Silver Medal
- 08.2015 Australian Mathematics Competition, Distinction (top 5%)