
Research experience and education

- 2021–... **Assistant Professor**, *Chalmers University of Technology*, Sweden
Starting a research team in photonics and quantum technologies at the Department of Microtechnology and Nanoscience (MC2).
- 2016–2021 **Postdoctoral Fellow**, *Stanford University*, USA
Research on thin-film lithium niobate, quantum optics, heterogeneous integration, and superconducting circuits in the group of Prof. Amir Safavi-Naeini, Ginzton laboratory, Department of Applied Physics.
- 03/2019 **Scientific Consultant**, *PsiQuantum Corp.*, USA
NDA.
- 2012–2016 **PhD in Engineering: Photonics**, *Ghent University – imec*, Belgium
Research on silicon photonics, nonlinear optics, Brillouin scattering and optomechanics, Photonics Research Group, Department of Information Technology. PhD thesis titled *Light-Sound Interaction in Nanoscale Silicon Waveguides*. Advisors: Prof. Dries Van Thourhout and Prof. Roel Baets.
- Fall 2011 **Visiting scholar**, *Cornell University*, USA
Research on quantum and nonlinear photonics in the group of Prof. Alexander Gaeta, School of Applied and Engineering Physics.
- 2006–2011 **Bachelor and Master of Science in Engineering Physics**, *Ghent University*, Belgium
Obtained with greatest distinction. Master thesis on dyadic quantum computing advised by Prof. Alexis De Vos. Financially supported by the Flemish government in 2007.
- Fall 2009 **Exchange Term in Engineering Physics**, *Royal Institute of Technology (KTH)*, Sweden
Erasmus program. Project on Bell's inequalities.

Honors and grants

- 2022 **SSF Future Research Leader Grant**
Awarded by the Swedish Foundation for Strategic Research.
- 2021 **ERC Starting Grant**
Awarded by the European Research Council.
- 2021 **Excellence program - Startup Grant**
Awarded by the Wallenberg Centre for Quantum Technology to launch a new laboratory at Chalmers.
- 2018 **US National Science Foundation grant**
NSF – 1808100 on optomechanical antennas. Provided intellectual input on proposal (PI: Prof. Amir Safavi-Naeini).
- 2016 **Outgoing Marie Skłodowska-Curie grant**
Awarded by the Flemish Agency for Innovation by Science and Technology ([PEGASUS]²) and Horizon 2020 of the European Union.
- 2016 **VOCATIO grant**
Awarded by the VOCATIO foundation to develop phononic circuits at Stanford.

2015 **Optics & Photonics “Optics in 2015”**

Named by the Optical Society of America for discovery of photon-phonon interaction in silicon nanowire, “among the most exciting research to emerge in 2015”.

2015 **Graduate student prize**

Awarded by the IEEE Photonics Society for research excellence.

2014 **Best poster prize**

Awarded by the IEEE Photonics Society at IPC 2014.

2012 **PhD fellowship**

Awarded by the Flemish Agency for Innovation by Science and Technology (IWT-FWO) to conduct research on optomechanical nonlinearities.

2011 **BAEF fellowship**

Awarded by the Belgian American Educational Foundation for a visiting scholarship at Cornell University.

Languages

Dutch	Native
English	Advanced
French	Intermediate
Swedish	Intermediate

Scientific results

[Full publication list by Google Scholar.](#)