

Robin Wydaeghe

drs. ir. Engineering Physics · Ghent, Belgium

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EXPERIENCE

2021–Oct. 2026 (expected)	PhD Researcher, Computational Physics imec & Ghent University · Ghent, Belgium - Independently designed and executed measurements to calibrate the 3D model of an indoor room such that 28 GHz ray-tracing simulations match the 3D scans of fields measured using a precise robot. - Published or submitted papers that use stochastic channel generators, Monte Carlo, statistical fitting, uncertainty quantification, sensitivity analysis, and training with leave-one-out cross-validation.
2023	Research visit IT'IS Foundation & Zurich MedTech AG · Zürich, Switzerland
2020	Research Intern Keysight Technologies · Ghent, Belgium Feasibility study on whether an IFFT can convert FEM results into the time domain, validated using FDTD.

SCIENTIFIC SOFTWARE

GOLIAT · Python framework for electromagnetic field dosimetry simulations.

AEGIS · Python, JAX, React, Three.js.

EDUCATION

2021–Oct. 2026 (expected)	PhD in Engineering Physics Ghent University & imec
2016–2021	MSc & BSc in Engineering Physics Ghent University · Burgerlijk ingenieur in de Toegepaste Natuurkunde

PUBLICATIONS & RECOGNITION

5 published journal articles · 4 submitted manuscripts · 1 to be submitted · 10 conference papers · 2 technical documents · 1 dataset · 1 master's thesis.

Full publication record · npj Wireless Technology

BioEM student competition prizes · 2022 & 2024
Sim4Life Student Competition · 3rd Prize · 2025
TEDxKULeuven speaker · 2025

PROGRAMMING & LANGUAGES

Programming & tools: Python · MATLAB · basic C++ · GPU and HPC workflows · Linux · Git

Languages: Dutch (native) · English (C2) · French (C2)