

Breaking The Wall of Sensing - Marko Perestjuk

Marko Perestjuk is one of the fifteen MSCA fellows who will participate in the Falling Walls Lab competition.

Marko obtained his BSc and MSc degrees from Humboldt University in Berlin (Germany) and spent two years studying and researching in the United States at the University of California Santa Barbara and the University of Washington. He became fascinated during his work at the Fraunhofer Heinrich-Hertz-Institut by how researchers and engineers can make devices to **manipulate light smaller and smaller**. This motivated him to start a PhD in 2021 at the Institut des Nanotechnologies de Lyon (France) and RMIT University (Australia) as a Marie Skłodowska-Curie fellow.

There he is working on developing **tiny chips** for sensing, working by trapping **light**. By developing this technology, it would be possible to build integrated sensors in phones or other devices and be able to diagnose diseases from home for example.

