



Vytautas Navikas

PhD student in biotechnology and bioengineering

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Inspired by a visual side of science.

EDUCATION

Phd student in biotechnology and bioengineering

École polytechnique fédérale de Lausanne

09/2017 - Present

Lausanne, Switzerland

Projected thesis

- Correlative single-molecule imaging methods for ion channel behavior studies

Master degree in Biophysics

Vilnius University

09/2015 - 06/2017

Vilnius, Lithuania

Thesis

- Scanning probe nanolithography for rapid prototyping of single-cell arrays

Bachelor in Biophysics

Vilnius University

09/2011 - 06/2015

Vilnius, Lithuania

Thesis

- Lipid nanolithography for in vitro biophysical systems

WORK EXPERIENCE

Manager

Baltfab [↗](#)

04/2016 - Present

Vilnius, Lithuania

Open access facility for business and research

Tasks

- Managed and executed projects related to surface bio-patterning services. (Part-time)

Engineer

Center for Physical Sciences and Technology [↗](#)

07/2014 - Present

Vilnius, Lithuania

Research institute Center for Physical Sciences and Technology

Tasks

- Various R&D projects related to biochemical surface patterning methods and their development. (Full-time)

Consultant

Spronk 3D [↗](#)

2014 - 2017

Vilnius, Lithuania

3D animation services for science

Achievements/Tasks

- Consulted various projects for scientific animation and performed visualizations with Blender 3D. (Part-time)

SKILLS AND COMPETENCES

Super-resolution microscopy

Scientific visualization

Single-molecule imaging

Scanning probe lithography

Image processing

Blender 3D

Python

Adobe Illustrator

Fiji

PERSONAL PROJECTS

Exposure Science Film Hackathon 2018 and 2020 [↗](#)

- Created a short movie for science communication and won a public (2018) and comitte (2020) awards

Visualizing holographic product designs for Morhotonix (2018 - Present) [↗](#)

- Making short-videos of product designs with Blender 3D for a holographic security company.

PUBLICATIONS

High-Throughput Nanocapillary Filling Enabled by Microwave Radiation for Scanning Ion Conductance Microscopy Imaging [↗](#)

Developed and tested a protocol for direct nanocapillary filling for further applications.

Scanning Probe-Directed Assembly and Rapid Chemical Writing Using Nanoscopic Flow of Phospholipids [↗](#)

Half of my master's project wrapped up in a form of publication.

Lipid dip-pen nanolithography on self-assembled monolayers [↗](#)

My first publication made mainly from my bachelor's thesis results.

LANGUAGES

Lithuanian

Native or Bilingual

English

Expert

French

Beginner

Russian

Beginner

INTERESTS

Photograhly

Conceptual scientific visualizations

Scientific communication

Nanotechnology

Molecular arrays

Deep learning

MTB