# POLINA MALAHOV

Ph.D. candidate in Molecular and cellular biology – Project lead

## CONTACT

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## SKILLS

MATLAB ● Python ● R ● SolidWorks ● Data processing & analysis

In vitro cultures ● Viral transfection ● Immunocytochemistry ● Calcium Imaging ● Optogenetics Electrophysiology ● Functional neuroimaging

Critical thinking ● Creativity & Problem solving ● Collaborations and teamwork ● Strong work ethics ● Oral and written communication

## LANGUAGES

English, fluent
Russian, Native
Hebrew, Native

## EDUCATION

**Sorbonne Université (Paris, France) and**
**University of Groningen (Groningen, Netherlands)**
2023-2026
Ph.D. in Molecular and cellular biology

**The Norwegian University of Science and Technology (NTNU)**
**(Trondheim, Norway)**
2021 - 2023
M.Sc. in Neuroscience **Grade: A**

**Bar Ilan University (Ramat Gan, Israel)**
2017 – 2020
B.Sc. in Neuroscience **Grade: A**

## ACADEMIC EXPERIENCE

**Sorbonne Université (Paris, France) and**
**University of Groningen (Groningen, Netherlands)**
2023-Present
Part of the EGRET AAA Marie-Curie Actions Doctoral Network.
Studying inflammatory pathways affecting neural function in hiPSC (human induced pluripotent stem cells), using transcriptomics and electrophysiology.

**NTNU - Sandvig group, Research assistant**
2021–2023
Conducted in vitro work utilizing various techniques (ICC, viral transfections, calcium imaging and optogenetics) on micro-scale engineered platforms to investigate neural network development and plasticity. Research focused on the use of advanced microfluidic models to study structure-function dynamics in healthy and perturbed neural networks in vitro.

**Bar Ilan University and Hebrew University, Research assistant**
2018–2020
Administration of clinical neuropsychological testing to gather data from various research experiments conducted in the MEG neuroimaging unit and performing physiological and behavioral analysis of the collected data. Research focus was paradoxical thinking as a way of changing attitudes in the context of intergroup conflict.

## WORK EXPERIENCE

**RSIP Vision, Data analyst/Project lead**
2019–Present
Analyzing clinical records and medical images with the purpose of creating statistical data and develop solutions utilizing deep learning for image processing.