

# Aleksandr Armen Hayrapetyan

Research Institute of Physics  
Junior Researcher

✉ aleqsandr.hayrapetyan@ysu.am

## 🎓 Education

Institution	Yerevan State University
Faculty	Faculty of Physics, Department of Optics
Date	2021 - 2023
Degree name	PhD student

Institution	American University of Armenia
Faculty	Akian College of Science and Engineering
Date	2020 - 2022
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Physics, Department of Optics
Date	2019 - 2021
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Physics, Department of Optics
Date	2015 - 2019
Degree name	Bachelor

## 🌐 Language skills

English Русский

## 🔬 Scientific interests

- Laser physics
- Machine learning
- Deep learning
- Physics of liquid crystals
- Optics

## 👥 Membership

Institution	Scientific Council of the Faculty of Physics
-------------	--

**Period of time** 2018 - 2023

---

**Institution** Student Scientific Society of the Faculty of Physics

**Period of time** 2016 - 2023

---

## Publications

---

*Article*

**Light-controllable liquid crystal platform for microparticle oscillations and transport**

Sergey Shvetsov, Tetiana Orlova, Aleksandr Hayrapetyan, Alexey Vasil'ev, Mushegh Rafayelyan

Soft Matter 2024 6920-6928

---

*Article*

**The Rouse Model of Viscoelasticity and Diffusion Behavior of Chromatin**

Stepanyan V. A., Hayrapetyan A. A., Mamasakhlisov E.S

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 254-258

---