

# Aleksandr Armen Hayrapetyan

✉ aleqsandr.hayrapetyan@ysu.am

## Research Institute of Physics

Junior Researcher

### Education

---

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

---

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

---

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

---

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

---

### Language skills

English Русский

---

### Scientific interests

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

### Membership

---

<b>Institution</b>	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

---