

# TATEVIK MKRTCHYAN



## PERSONAL PROFILE

---

I love inventive and creative work that requires new approaches to solve problems. Skilled in Physics, Scientific Programming, Teaching I am focused in Extragalactic Astrophysics

## SCIENTIFIC INTEREST

---

- AGN
- Extragalactic Astrophysics
- Galaxy Evolution and Formation
- Astroparticle Physics
- Supermassive black holes
- Cosmology

## CONTACT INFORMATION

---

Phone: (+56) 977-68-10-68, (+374) 94-381-016,  
Email: mkrtchyantatev@gmail.com  
Address: Los Triguales 7887, ap. 802, Las Condes,  
Santiago, Chile

## PROFESSIONAL EXPERIENCE

### Senior Lab Assistant

BYURAKAN ASTROPHYSICAL OBSERVATORY | 2021 APRIL - 2022

- Working with Active Galactic Nuclei group on Galaxy Evolution models using Principal Component Analysis

### Education Expert/ Lead Physics Teacher

NATIONAL CENTER OF EDUCATIONAL TECHNOLOGIES | 2020 - 2022

- Helping teachers with implementing teaching methods, creating training content, and quality assurance tools

### Teacher Trainer/Mentor

STATE PEDAGOGICAL-PSYCHOLOGICAL CENTER | 2019 - 2022

- Organizing and leading training sessions for teachers to develop teaching skills

### Founder/Blogger

PLANCKTON | 2020 - NOW

- Creating scientific written and video content about ongoing research and complex scientific topics

### Physics/Astrophysics Teacher

SHIRAKATSY LYCEUM INTERNATIONAL SCIENTIFIC-EDUCATIONAL COMPLEX | 2018 - 2019

- Lead "Young Astrophysicist" student club
- Taught Physics and Astrophysics in English

### Junior Researcher Intern

INTERNATIONAL CENTER FOR RELATIVISTIC ASTROPHYSICS | 2016 - 2018

- Made models of high energy gamma radiation processes of blazars using Wolfram Mathematica.

### Robotics Workshop Leader

TUMO CENTER FOR CREATIVE TECHNOLOGIES | 2017 - 2018

- Made engineering activities and taught robotics with Lego Mindstorm to children aged 12 - 18

### Research Analyst

FOUNDATION OF ARMENIAN SCIENCE AND TECHNOLOGY | 2016 - 2017

- Collected data regarding scientific and technical development strategies

## CONTACT DETAILS OF REFEREES

---

- Dr. Chiara Mazzucchelli  
chiara.mazzucchelli@mail.udp.cl  
(Universidad Diego Portales)

## MEMBERSHIP

---

- President of The Optical Society YSU and NAS chapter | 2020 - 2021 March
- Secretary of the student scientific society of YSU Physics Department  
| September | 2016 - June 2018
- Member of SPIE YSU chapter  
| September 2015 - September 2016

## ACHIEVEMENTS

---

- Finalist of Falling Walls Science Engage | 2020
- Scholarship after Viktor Hambardzumyan | 2020
- Scholarship after Gevorg and Gohar Vardanian | 2014
- Annual Presidential Award of the RA in IT Sphere | 2014

## HOBBIES

---

- Scientific blogging
- Ukulele
- Board Games
- Hiking

## EDUCATION

### Universidad Diego Portales

PHD STUDENT IN ASTROPHYSICS | AUGUST 2022 - NOW

### Yerevan State University

MASTER'S DEGREE IN ASTROPHYSICS | SEPTEMBER 2019 - MAY 2021

- Thesis - The Study of High Energy Gamma-Ray Emission from Galaxy Clusters

### Yerevan State University

BACHELOR'S DEGREE IN PHYSICS | SEPTEMBER 2014 - JUNE 2019

- Thesis - High Energy Gamma Ray Radiation Processes of Blazars

## CONFERENCES

### 18th Heidelberg Summer School

IMPRS-HD | SEPTEMBER 2023

### New Era of AGN Science with the Vera C. Rubin LSST [Speaker]

LSST AGN SC | JULY 2023

### Science Leadership Conference

THE OPTICAL SOCIETY | SEPTEMBER 2020

### VHE Phenomena around Supermassive Black Holes Workshop [Organizer]

RUSSIAN-ARMENIAN UNIVERSITY, UNIVERSITY OF HEIDELBERG, VOLKSWAGEN FOUNDATION | APRIL 2019

### Sixth Byurakan Summer School

BYURAKAN ASTROPHYSICAL OBSERVATORY | SEPTEMBER 2018

### IONS International Conference [Organizer]

OSA YSU AND NAS CHAPTER | JUNE 2017

### Wolfram Summer School

WOLFRAM RESEARCH COMPANY | AUGUST 2017

### Physics and Us Summer School [Speaker]

YEREVAN STATE UNIVERSITY STUDENT SOCIETY | JULY 2016

## PROFESSIONAL SKILLS

|                   |                                 |
|-------------------|---------------------------------|
| <b>NOVICE</b>     | C++, Python                     |
| <b>PROFICIENT</b> | Wolfram Mathematica, Adobe Suit |
| <b>EXPERT</b>     | MS Office/G Suit                |

## LANGUAGES

|                 |                     |
|-----------------|---------------------|
| <b>ARMENIAN</b> | <i>NATIVE</i>       |
| <b>RUSSIAN</b>  | <i>FLUENT</i>       |
| <b>ENGLISH</b>  | <i>FLUENT</i>       |
| <b>SPANISH</b>  | <i>INTERMEDIATE</i> |