

<p style="text-align: center;"><b>CURRICULUM VITAE</b> <b>Tigran Karapetyan</b></p>
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**SURNAME** Karapetyan

**FIRST NAME** Tigran

**Date and place of birth:** September 29, 1979, Republic of Armenia.

**Marital status:** Married.

**Nationality:** Armenian.

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**E-mail:** ktigran79@gmail.com

**Official address:**

Alikhanyan National Science Laboratory  
(Yerevan Physics Institute) Foundation.  
Alikhanyan brothers 2, Yerevan 0036, Armenia.

**Technical skills:**

Operating Systems	MS Windows family, Linux.
Data analysis tools	MatLab, Origin, ROOT.
Other software	Microsoft Office.

**Driving license:** B, C.

**Work Experience:**

- Installation of workstations (windows XP, 7, 8, 10, Linux, antivirus software).
- Install, upgrade, and maintain computers.
- Repair of computers and notebooks.
- Resolving of hardware and software problems.
- Motherboard recoding.
- Diagnostics.
- RAM checking.
- Hard drive verification.
- Repair of bad blocks.
- Data restoration.

**Education (degrees, dates universities):**

Bachelor's degree of Physics, Pedagogics in the field of Nuclear Physics 2002-2006, Yerevan State University.

Master's degree of Physics in the field of Nuclear Physics 2006-2008, Yerevan State University.

Ph.D in Physics (Nuclear, Elementary particles and cosmic ray physics), 2014, Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation.

**Career/Employment (employers, positions and dates):**

Senior laborant at the Cosmic Ray Division of the Yerevan Physics Institute 2008-2011.

Engineer-Physicist at the Cosmic Ray Division of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation, 2011-2014.

Scientific researcher at the Cosmic Ray Division of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation, 2014-2016.

Senior scientific researcher at the Cosmic Ray Division of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation, 2016 --- till today.

Group leader of laborants of Nor Amberd high altitude research station of the Cosmic Ray Division of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation, 2009--- till today.

Deputy Head of the Cosmic Ray Division of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation, 2014--- till today.

Member of the Scientific Council of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation 2014--- till today.

Group leader of N220/2 (Armenian geophysical network and elementary particle detectors' networks service) of the Cosmic Ray Division of the Alikhanyan National Science Laboratory (Yerevan Physics Institute) Foundation, 2018--- till today

Responsible of European network of particle detectors SEVAN (Space Environmental Viewing and Analysis Network), 2017--- till today.

**Specialization (specify):**

High energy physics in the atmosphere, Lightning Physics, Solar physics, Geophysics, Solar-terrestrial connections, Modulations of secondary cosmic ray fluxes, Particle detectors.

**Courses taught at the master program of the Alikhanyan National Science Laboratory (Yerevan Physics Institute):**

Networks of particle detectors, 2016 --- till today

**List of publications:**

1. A. Chilingarian, Ch. Angelov, K. Arakelyan, T. Arsov, K. Avakyan, S. Chilingaryan, A. Hovhannisyanyan, G. Hovsepyan, D. Hrzina, T. Hovhannisyanyan, D. Maricic, A. Nishev, A. Tchorbadjieff, I. Kalapov, T. Karapetyan, L. Kozliner, B. Mailyan, A. Reymers, I. Romštajn, D. Roša, J. Stamenov, S. Tserunyan, A. Yeghikyan, New Particle Detector Network for Solar Physics and Space Weather research, PROCEEDINGS OF THE 31st ICRC, ŁODZ, 1-4, 2009.
2. D. Rosa, Ch. Angelov, K. Arakelyan, T. Arsov, K. Avakyan, A. Chilingarian, S. Chilingaryan, A. Hovhanissyan, T. Hovhannisyanyan, G. Hovsepyan, D. Sargsyan, D. Hrzina, I. Kalapov, T. Karapetyan, L. Kozliner, B. Mailyan, D. Maricic, A. Nishev, D. Pokhsranyan, A. Reymers, I. Romstajn, J. Stamenov, A. Tchorbadjieff, L. Vanyan, Sevan CRO particle detector for solar physics and space weather research, Central European Astrophysical Bulletin, 34, 115-122, 2010.
3. Chilingarian A., Karapetyan T., Calculation of the barometric coefficients at the start of the 24th solar activity cycle for particle detectors of Aragats Space Environmental Centre, Advances in Space Research, 47, 1140-1146, 2011.
4. Chilingarian A., Bostanjyan N., Karapetyan T., Vanyan L., Remarks on recent results on neutron production during thunderstorms, Physical Review D, 86, 093017/1-093017/7, 2012.
5. Karapetyan T., Magnetometric Measurements at Mt. Aragats, Journal of Physics: Conference Series, 409, 012220/1-012220/5, 2013.
6. Chilingarian A., Karapetyan T., Melkumyan L., Statistical analysis of the Thunderstorm Ground Enhancements (TGE's) detected on Mt. Aragats, Advances in Space Research, 52, 1178-1192, 2013.
7. Chilingarian A., Bostanjyan N., Karapetyan T., On the possibility of location of radiation-emitting region in thundercloud, Journal of Physics, 409, 012217/1-012217/4, 2013.

8. A. Chilingarian, N. Bostanjyan, T. Karapetyan and L. Vanyan, Neutron production during thunderstorms, Journal of Physics: Conference Series 409 (1), 012216, 2013.
9. Chilingarian A., Mnatsakanyan E., Avakyan K., Reymers A., Vanyan L., Karapetyan T., Low Energy threshold (01,-2MeV) detector for registration of the Thunderstorm ground enhancements, Proceedings of International Symposium TEPA 2013, 96-101, 2013.
10. T. Karapetyan, Research of solar and thunderstorm modulation effects posed on the secondary cosmic ray fluxes, VarSITI Newsletter, Vol. 2, July 2014.
11. A. Chilingarian, T. Karapetyan, D. Pokhsranyan, Research of the thundercloud electrification by facilities of Aragats Space Environmental Center, Proceedings of International Symposium TEPA-2015, 54-57, ISBN 978-99941-0-712-4, <https://inspirehep.net/record/1407534>, 2016.
12. A. Chilingarian, T. Karapetyan, D. Pokhsranyan, V. Bogomolov, G. Garipov, M. Panasyuk, S. Svertilov, K. Saleev, Ultraviolet and infrared emission from lightning discharges observed at Aragats, Proceedings of International Symposium TEPA-2015, 2, 58-63, ISBN 978-99941-0-712-4, <https://inspirehep.net/record/1407534>, 2016.
13. A. Chilingarian, S. Chilingaryan, T. Karapetyan, L. Kozliner, Y. Khanikyants, G. Hovsepyan, D. Pokhsranyan, S. Soghomonyan, On the initiation of lightning in thunderclouds, SCIENTIFIC REPORTS, 7: 1371, 1-10, ISBN 978-99941-0-803-9, <https://inspirehep.net/record/1407534>, 2017.
14. A. Chilingarian, S. Chilingaryan, T. Karapetyan, Y. Khanikyants, D. Pokhsranyan, S. Soghomonyan, On the origine of particle fluxes from thunderclouds, Proceedings of International Symposium TEPA-2016, 13-19, ISBN 978-99941-0-803-9, <https://inspirehep.net/record/1407534>, 2017.
15. V. Bogomolov, A. Chilingarian, G. Garipov, G. Hovsepyan, A. Iyudin, T. Karapetyan, A. Kovalenko, I. Maximov, E. Mntasakanyan, M. Panasyuk, K. Saleev, S. Svertilov, Results of TGE Study in 0.03-10 Mev Energy Range in Ground Experiments near Moscow and Aragats, Proceedings of International Symposium TEPA-2016, 50-55, ISBN 978-99941-0-803-9, <https://inspirehep.net/record/1407534>, 2017.
16. K. Avakyan, S. Chilingaryan, A. Chilingarian, T. Karapetyan, Physical analysis of multivariate measurments in the Atmospheric high-energy physics experiments

within ADEI platform, Proceedings of International Symposium TEPA-2016, 56-69, **ISBN 978-99941-0-803-9**, <https://inspirehep.net/record/1407534>, 2017.

17. G. Karapetyan, T. Karapetyan, Z. Asaturyan, Database of Directivity Functions of Neutron Monitors, VarSITI Newsletter, Vol. 16, January 2018.
18. A. Chilingarian, V. Babayan, T. Karapetyan, B. Mailyan, B. Sargsyan and M. Zazyan, The SEVAN Worldwide network of particle detectors: 10 years of operation, Advances in Space Research, doi: <https://doi.org/10.1016/j.asr.2018.02.030>, 2018.
19. F. Šterc, D. Roša, D. Maričić, D. Hržina, I. Romštajn, A. Chilingarian, T. Karapetyan, D. Cafuta and M. Horvat, SEVAN particle detector at Zagreb Astronomical Observatory: 10 years of operation, Proceedings of Tenth Workshop “Solar Influences on the Magnetosphere, Ionosphere and Atmosphere” Primorsko, Bulgaria, 144-150, **ISSN 2367-7570**, 2018.
20. Nina Nikolova, Karel Kudela, Ronald Langer, Igor Strhárský, Ivo Angelov, Ashot Chilingarian, Tigran Karapetyan, Balabek Sargsyan, Todor Arsov, and Christo Angelov, SEVAN detector measurements at BEO Moussala and Lomnický Štít: First experience from 2014-2017, AIP Conference Proceedings **2075**, 130028 (2019); <https://doi.org/10.1063/1.5091313>, 2019
21. A. Chilingarian, A. Avetisyan, G. Hovsepyan, T. Karapetyan, L. Kozliner, B. Sargsyan, M. Zazyan, On the Origin of the Low-Energy Gamma Ray Flux of the Long-Lasting Thunderstorm Ground Enhancements (LL TGEs), Proceedings of International Symposium TEPA-2018, 111-117, **ISBN 978-99941-0-905-0**, 2019.
22. T. Karapetyan, B. Sargsyan, Influence of the Barometric Effect on the Surface Particle Detectors Count Rates, Proceedings of International Symposium TEPA-2018, 111-117, **ISBN 978-99941-0-905-0**, 2019.
23. A. Chilingarian, A. Avetisyan, G. Hovsepyan, T. Karapetyan, L. Kozliner, B. Sargsyan, M. Zazyan, Origin of the low-energy gamma ray flux of the long-lasting thunderstorm ground enhancements, PHYSICAL REVIEW D **99**, 102002, (2019), DOI:10.1103/PhysRevD.99.102002

### **Conferences and Business trips:**

1. UN/ESA/NASA/JAXA Workshop on the International Heliophysical Year 2007 and Basic Space Science, Sozopol, Bulgaria, 2-6 June, 2008.
2. Forecasting of the Radiation and Geomagnetic Storms by networks of particle detectors (FORGES -2008), Nor Amberd, Armenia, 29 September-2 October, 2008.
3. Thunderstorms and Elementary Particle Acceleration (TEPA-2010), Nor Amberd, Armenia, 6-11 September, 2010.
4. The 23-rd European Cosmic Ray Symposium (ECRS 2012), Moscow, Russia, 3-7 July, 2012.
5. Thunderstorms and Elementary Particle Acceleration (TEPA-2012), Moscow, Russia, 9-11 July, 2012.
6. Thunderstorms and Elementary Particle Acceleration (TEPA-2013), Nor Amberd, Armenia, 9-13 September, 2013.
7. Sixth Workshop of Solar Influences on the Magnetosphere, Ionosphere and Atmosphere, Sunny Beach, Bulgaria, 26-30 May, 2014.
8. Meeting of the BBC Regional Network for Space Weather Studies, Sunny Beach, Bulgaria, 29 May, 2014.
9. Thunderstorms and Elementary Particle Acceleration (TEPA-2014), Nor Amberd, Armenia, 22-26 September, 2014.
10. Lightning initiation, Electron acceleration and Atmospheric Discharges,(LEAD – 2015), Nor Amberd, Armenia, 9-12 June, 2015.
11. Thunderstorms and Elementary Particle Acceleration (TEPA-2015), Nor Amberd, Armenia, 5-9 October, 2015.
12. 34-я Всероссийская конференция по космическим лучам, Дубна, 15-19 августа 2016 г.
13. Thunderstorms and Elementary Particle Acceleration (TEPA-2016), Nor Amberd, Armenia, 3-7 October, 2016.

14. “10 years of NMDB” Workshop 20-23 March, 2017, Athens, Greece.
15. ARBRA Armenia – Brandenburg Workshop on Scientific Collaboration and Common Interests in the Physical Sciences, on 23-24 May 2017 at Nor Amberd International Conference Centre of the Yerevan Physics Institute (YerPhI), Byurakan, Armenia.
16. Thunderstorms and Elementary Particle Acceleration (TEPA-2018), Nor Amberd, Armenia, 17-21 September, 2018.

**Languages:**

Armenian	native
Russian	good
English	good