

CV – Igor Chilingarian

Dr. Igor Chilingaryan (publishing as Chilingarian) born 1980/May/16 in Moscow, USSR

citizenship: French and Russian; *marital status:* single never married

languages: Russian (native), English (fluent), French (good), Spanish (basic)

Professional Preparation

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|---|--------------|--------------------------|
| Moscow State University (Russia) | Astronomy | MSc, honour degree, 2003 |
| Moscow State University (Russia) and Universite de Lyon-1 (France) | Astrophysics | PhD, 2006 |
| Observatoire de Paris (France), postdoc | | 2006–2009 |
| Observatoire de Strasbourg (France), postdoc | | 2009–2011 |
| Moscow State University (Russia) | Astrophysics | DSc (habilitation), 2010 |

Appointments

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|---|-------------------|
| Researcher, Sternberg Astronomical Institute, Moscow State University | Apr/2006–Dec/2006 |
| Adjunct Researcher, —//— | Dec/2006–Dec/2010 |
| Adjunct Leading Researcher, —//— | Dec/2010–present |
| Astronomer, Smithsonian Astrophysical Observatory | Sep/2011–present |

Invited talks at international conferences and workshops

- Multi-wavelength Astronomy and the Virtual Observatory Workshop (Villafranca del Castillo, Spain, 1-3 Dec 2008): “Virtual Observatory for Astronomers: Where Are We Now?”
- Dynamics and evolution of disc galaxies (Moscow, Russia, 31/May-04/Jun 2010): “Discs in dwarf early-type galaxies”
- European Planetary Science Congress (Rome, Italy, 20-24/Sep/2010): “Virtual Observatory powered research in astrophysics”
- Early-type Dwarf Galaxies: Origin, Evolution, Characteristics (Heidelberg, Germany, 18-20/Oct/2010): “Stellar populations of dwarf early-type galaxies”
- ADASS-XX (Boston, USA, 7-11 Nov 2010): Tutorial “Cross-identifying data resources in the VO era”
- European Week of Astronomy and Space Science (St.Petersburg, Russia, 4-8 Jul 2011): “VO powered research in extragalactic astrophysics”
- ADASS-XXII (Champaign, IL, USA, 4-8 Nov 2012): Tutorial “How the VO Gets Richer and Helps Solve Fundamental Problems of Extragalactic Astrophysics”
- ADASS-XXV (Sydney, Australia, 25-29 Oct 2015): Tutorial (joint with I.Zolotukhin) “New Tools for X-ray Astrophysics in the Epoch of Data and Software Interoperability”
- High-Energy Astrophysics 2018 (Moscow, Russia, 18-22 Dec 2018): “A population of intermediate-mass black holes identified as low-luminosity active galactic nuclei”
- 52 invited talks at scientific seminars/colloquia and 50 contributed conference talks in 2001–2020

Honors/awards

- 2003: D. Martynov award for the master thesis
- 2006: 2nd prize for the PhD thesis in physics/astronomy at Moscow State University
- 2007: Armenian Astronomical Society Annual Prize for young astronomers
- 2012: Medal for young scientists by the Russian Academy of Sciences in the field of physics/astronomy
- 2018: Smithsonian Secretary’s Research Prize

Grants/contracts

- 2002, 2003: Russian Foundation for Basic Research (RFBR) young researcher grants in IT 02-07-06096 (PI), 03-07-06116 (PI)
- 2008–2010: co-I of the joint Russian-Flemish RFBR–Flanders grant “V3D: 3D spectroscopic survey of the Virgo cluster and nearby groups” (~100 kEUR)
- 2006–2011: PI and co-I in several research projects funded by VO-France (Action Specifique de l’Observatoire Virtuel), VO-Paris Data Centre, PNG/PNCG (Programme Nationale Galaxies).
- 2009, 2012: ESO Visiting Scientist (Santiago, Chile)

- 2012–2013: PI of the President of Russia grant for young doctors of science (~\$33k per year)
- 2014–2016: co-PI of a Russian laboratory scale grant, ~\$350k per year
- 2015–2017: PI of three grants in Russia for a total amount of ~\$80k per year
- 2017–2018: PI of 2 NASA contracts allocated for Chandra DDT proposals (\$18k+\$19k)
- 2018: co-chair of the “leading scientific school in astrophysics” at Moscow State University (\$300k)
- 2019–2021: PI of the Russian Science Foundation grant (\$120k/year)

Membership on advisory committees (internal and external)

- Harvard-Smithsonian Center for Astrophysics committee on high-performance computing (2017–present)
- Russian expert corps in natural sciences, physics and astronomy (2010–present)
- Foreign expert in physics/astronomy of the Ministry of Education and Science of Armenia (2011–present)

Refereeing activities

arXiv: 1 of the 6 moderators for arXiv.astro-ph

Peer-reviewed journals: Nature, Astronomy & Astrophysics, MNRAS, ApJ, ApJS, ApJL, PASP, Journal of Physics B, Astronomy Letters, Astronomy and Computing, Baltic Astronomy

Grant proposals: National Science Foundation, USA (2016, 2017); European Research Council Advanced Grants (2018); NSERC Research Grants, Canada (2019); Russian Science Foundation (2014–2019): proposals on all scales from small groups (~\$150k/yr) to key projects in Russian astronomy (~\$15M/yr).

An examiner of a PhD thesis by C.Usher (2013, Swinburne University of Technology, Australia)

Responsibility for meetings/scientific conferences

ESA Workshop “Optical Spectroscopy and the Virtual Observatory” (Spain, Mar/2007) – SOC member

Telescope time

PI of proposals at: Calar-Alto (3.5m), Russian BTA (6m), Magellan (6.5m), MMT (6.5m), Gemini (8m) ground-based telescopes (~60 nights in total); Swift, Chandra, XMM-Newton space observatories

Educational activities

- **Sep/2003 – Jan/2004**: “Programming for Astronomers” two full 1-semester courses taught for the 1st and 2nd year undergraduates at the Moscow State University (Russia)
- **Oct/2007**: mini-course of 3 lectures and 2 hands-on demo sessions at the Virtual Observatory School (Institute of the Theoretical Physics and Astronomy, University of Vilnius, Lithuania)
- **Jun/2010**: Invited lecture and a hands-on demo session at the Astroinformatics and the Virtual Observatory summer school (University of Belgrade, Serbia)
- **Sep/2010**: Lecture at the IAU International School for Young Astronomers-2010, Yerevan, Armenia
- **Sep/2012**: Invited lecture at the GAIA/LSST Visualisation School, Seattle, USA
- **Feb/2018**: A 3-days long crash course on stellar physics and galaxy evolution for engineering students, American University of Sharjah, United Arab Emirates

I supervised 2 senior undergraduate students at MIT and Wellesley, 7 undergrad students, 4 MSc students, 2 PhD students, 1 habilitation at Moscow State University; I supervise and remotely manage a research group of 4 PhD researchers and 11 students in Moscow (since 2012)

Media coverage and public outreach

Since 2009, 15 research papers authored/co-authored by me were accompanied by press-releases by CNRS, Moscow State University, CfA; I was interviewed by Russian nation-wide TV stations in 2012 and 2017. My 2015 *Science* paper on compact elliptical galaxies was covered by *NatGeo*, *Discovery*, *Slashdot*, *Gizmodo*, *MSN News*. My 2018 *ApJ* paper on intermediate-mass black holes had a full-page highlight article in *Science*.

3 public lectures and 6 featured interviews to media outlets since 2013

Bibliometric data

2111 citations (1141 as 1st author) listed in ADS as of Apr/2020; H-index: 25; 66 published refereed papers (24 as 1st author + 14 as 2nd author); 2 peer-reviewed Virtual Observatory standards