

Curriculum Vitae of Róbert Szabó

Researcher's unique identifier:

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R. Szabó is a world-renown expert of pulsating variable stars. He made significant contributions to the field both from the theoretical and from the observational sides. He worked in or visited several leading institutes in the world, namely **University of Florida**, where he conducted numerical modeling of pulsating stars as a postdoc, **Kavli Institute at the University of Santa Barbara**, **MIT**, **Harvard Center for Astrophysics**, and Sydney University, where he worked on asteroseismology and collaborated with the teams of space photometric missions. He is a leading figure in his field, he worked with the data of and preparation for several space photometric missions (MOST, CoRoT, Kepler/K2, TESS, PLATO), resulting in several successful observing proposals and high-profile publications. This is demonstrated by his leadership of international RR Lyrae and Cepheid Working Groups consisting of 25-50 researchers in the Kepler, K2 and TESS missions. He founded and led the Hungarian Kepler group in Konkoly Observatory. **Róbert Szabó initiated the K2 RR Lyrae Survey** which observes 5000 RR Lyrae stars and hundreds of Cepheids throughout the Ecliptic, creating a unique dataset, never seen before. His expertise is acknowledged by his **Steering Committee** membership in the Kepler and TESS Asteroseismic Science Consortia, and by **Board membership** of the planet-hunting and asteroseismology M3 Mission, PLATO of the European Space Agency, and as a member of the K2 Users' Panel. He is an SDSS External Collaborator and a member of WEAVE collaboration. Dr. Szabó has was the PI of three national research grants (KTIA, OTKA, NKFIH). He organized two international conferences as SOC chair: the 5th Kepler Asteroseismic Science Consortium conference in Balatonalmádi in 2012, and an RR Lyrae conference in Visegrád in 2015, which became the first of a series of international biannual conferences on classical pulsating variable stars (2017: Niepolomice, Poland, 2019: Cloudcroft, NM, USA, 2022: La Palma, Canary Islands, Spain, 2024: Marrakesh, Morocco, 2026: La Serena Chile, 2028: Sorrento, Italy). Róbert Szabó has a broad range of interests. Besides **photometry, space missions and pulsating stars, he worked on eclipsing binaries, exoplanets, stellar activity, asteroseismology, Solar System objects as well as transient astrophysical objects, like supernovae**. His expertise in different fields and leadership skills make him an excellent candidate to lead Konkoly Observatory into a new era of astronomy, namely the big data realm and the age of synoptic sky surveys and near-field cosmology. Pulsating variable stars are at the crossroads of several astrophysical domains from stellar astrophysics to galactic populations and cosmology. Being an expert in high-precision photometry and dynamical phenomena of classical pulsating stars, R. Szabó has started to work on near-field cosmology and classification problems to apply his knowledge to use these benchmark objects as tracers of the history of Galactic formation and evolution. In 2018 he won the prestigious **Lendület grant** from the Hungarian Academy of Sciences, titled *Near-field cosmology with pulsating variable stars: a Petascale challenge*. He became a member of several **LSST science working groups related to this proposal (Stars, Milky Way and the Local Volume, Transients and Variable Stars, Pulsating stars, Classification)**. He is the **leader of** the Hungarian in-kind contribution team to Vera Rubin Observatory's **Legacy Survey of Space and Time**. In 2025 he won a **Lendület grant for the second time**. The title of the project is *Challenges from astronomical data explosion: questions and answers from multi-D astrophysical modeling*.



Konkoly Observatory (or Astronomical Observatory) of the Research Centre for Astronomy and Earth Sciences of which Dr. Szabó is the director is by **far the largest astronomical institute in Hungary** and is among the largest ones in Central-Eastern Europe. It has more than 60 researchers, 20% of them are from all around the world (non-Hungarians). The Institute has a vigorous research assistant and mentoring program, and a famous seminar series featuring prominent world-leading professionals. Konkoly Observatory is a host of several national and international large projects (ERC, H2020, Horizon Europe, European Space Agency). Astronomers use cutting-edge research facilities around the world, like VLT(I), VLBI, HST, JWST, Kepler, TESS, Euclid, CoRoT, Spitzer, Herschel, and are members of several large astronomical projects (CHEOPS, Ariel, Gaia, PLATO, Comet Interceptor, JUICE, LSST, WEAVE, LUNA, JUNA, NuGrid, Europlanet).

Positions

2022 –	dep. director general , HUN-REN CSFK – Research Centre for Astronomy Earth Sciences
2019 –	director , Research Centre for Astronomy Earth Sciences (ELKH CSFK) Konkoly Observatory, Budapest, Hungary
2017 –	research advisor , Research Centre for Astronomy Earth Sciences (MTA CSFK), Konkoly Observatory, Budapest, Hungary
2016 –	deputy director , Konkoly Observatory, MTA CSFK, Budapest, Hungary
2012 – 2017	senior research fellow , Konkoly Observatory, Budapest, Hungary
2007 – 2012	research fellow , Konkoly Observatory, Budapest, Hungary
2005 – 2007	postdoctoral fellow , Physics Department, Univ. of Florida, USA
2001 – 2005	research fellow , Konkoly Observatory, Budapest, Hungary
1998 – 2001	junior research fellow , Konkoly Observatory, Budapest, Hungary

Education and degrees

2017	DSc (Doctor of Sciences), Hungarian Academy of Sciences
2008	Communication of Science and Management of Research training, Hungarian Academy of Sciences, Budapest, Hungary
2004	PhD , Astronomy and Particle Physics, Doctoral School, Eötvös Loránd Univ., Budapest, Hungary
1993-1999	Master (Astronomy, Mathematics and Physics) Astronomy Department, Eötvös Loránd University, Budapest, Hungary

Fellowships and awards

2025 – 2030	Lendület grant , Hungarian Academy of Sciences
2018	Physics Award , Physics Section of the Hungarian Academy of Sciences
2018	Researcher of the Year , Regional Centre of the Hung. Acad. of Sciences VEAB
2018 – 2023	Lendület grant , Hungarian Academy of Sciences
2017, 2018	Excellent researcher , MTA CSFK
2015	Bronze medallion , Regional Centre of the Hungarian Acad. of Sciences VEAB
2015	Bolyai plaque , Advisory Board of the Bolyai János Research Fellowship
2012	International Research Collaboration Award , University of Sydney, Australia
2011 – 2014	János Bolyai Research Scholarship of the Hungarian Academy of Sciences
2011	Young Researcher Award of the Hungarian Academy of Sciences
2006	Hungarian State Eötvös Fellowship
1998 – 2001	Young Researcher Fellowship , Konkoly Observatory, Budapest, Hungary

Organisation of scientific meetings

Dec 2026	RRLCEP conference, La Serena, Chile, SOC member
Sept 2026	LSST@EU8 Budapest, Hungary, SOC+LOC chair
Nov 2025	Stellar Variability: Taking the Pulse of the Universe, IUCCA conference, Pune, India, SOC member
Sept 2025	LSST@EU7 Poznan, Poland, SOC+LOC member
Sept 2025	Assembly of Hungarian Astronomers – conference, Budapest, Hungary, SOC/LOC chair
Aug 2025	Regional LSST workshop, Budapest, Hungary, SOC+LOC chair
June 2025	EAS2025 – European Astronomical Society conference Cork, Ireland, SOC member
Nov 2024	RRL/CEP2025 <i>Frontiers of classical pulsators – Theory and observations</i> , conference, Marrakesh, Morocco, SOC member
June 2024	EAS2024 – European Astronomical Society conference Padua, Italy, SOC member
Oct 2023	Ariel Consortium Meeting, Budapest, Hungary
June 2023	EAS2023 – European Astronomical Society conference Kraków, Poland, SOC member
Apr 2023	International Astronomical Union Symposium No. 376. <i>At the cross-roads of astrophysics and cosmology: Period–luminosity relations in the 2020s</i> and related spring school SOC and LOC member
Sept 2022	RRL/CEP2022 <i>Large-scale surveys as bridges between spectroscopy and photometry</i> , conference, La Palma, Spain, SOC member
Jul 2022	<i>Asteroseismology in the Era of Surveys from Space and the Ground: Stars, Planets, and the Milky Way</i> TASC6/KASC13 conference, Leuven, Belgium SOC member
June 2022	EAS2022 – European Astronomical Society conference Valencia, Spain, SOC member
Oct 2021	MW-Gaia COST Action, <i>Star Clusters: the Gaia Revolution</i> , Barcelona/virtual SOC members
Jun 2021	EAS2021 – European Astronomical Society, Leiden/virtual conference, SOC member 2400+ participants
Oct 2020	ARIEL Consortium meeting, Budapest/virtual, main organizer
Oct 2019	RRL2019: <i>Frontiers of Classical Pulsators: Theory and Observations</i> , Cloudcroft, NM, USA, SOC member
Sep 2017	RRL2017: <i>Revival of the classical pulsators: from Galactic Structure to Stellar Interior Diagnostics conference</i> , Niepolomice, Poland, 77 participants SOC Member
Jun 2017	<i>TESSing Stellar Astrophysics</i> KASC10/TASC3 konferencia Birmingham, UK, 164 participants, SOC member
Aug 2016	<i>XII. Torino workshop and the IV. CSFK Astromineralogy workshop</i> , Budapest, Hungary, 73 participants, SOC member
Oct 2015	RRL2015: <i>High-precision studies of RR Lyrae stars: from dynamical phenomena to mapping galactic structure</i> Visegrád, Hungary, 70 participants, LOC chair, SOC chair
Jun 2013	Sixth Kepler Asteroseismic Science Consortium Conference, <i>A New Era in Stellar Astrophysics with Kepler</i> , Sydney, Australia, 105 participants, SOC member

Jun 2012	Fifth Kepler Asteroseismic Science Consortium Conference, <i>Extending the Kepler mission: New Horizons in Asteroseismology</i> , Balatonalmádi, Hungary, 120 participants, LOC chair, SOC member
Jul 2011	Fourth Kepler Asteroseismic Science Consortium Conference, <i>From Unprecedented Data to Revolutionary Science</i> , Boulder CO, USA, 100 participants, SOC member
Jun 2010	Third Kepler Asteroseismic Science Consortium Conference, <i>Kepler Asteroseismology in Action</i> , Aarhus, Denmark, 150 participants, SOC member

Institutional responsibilities

2016 – 2019	Integrated risk manager , MTA CSFK, Budapest, Hungary
2016 – 2019	Scientific secretary , MTA CSFK, Budapest, Hungary
2010 – 2013	Organizer of the Konkoly Observatory Seminar Series , Konkoly Observatory, Budapest, Hungary
2010	Scientific Secretary , Konkoly Observatory, Budapest, Hungary

Services

2025 –	member , EAS Advisory Committee on Equity, Diversity, Inclusion
2024 –	IAU Division G Organizing Committee member
2022 – 2025	Elected non-academician member of the Hungarian Academy of Sciences General Assembly
2021 –	member , IAU Financial Committee
2021 – 2024	president , IAU Div G, Commission G4 Pulsating stars
2018 – 2021	acting president , IAU Div D Commission G4 Pulsating stars
2018 –	Auxiliary member , Doctoral Committee of the Physics Section
2017 –	Hungarian representative , ESON – European Southern Observatory Outreach Network
2016 – 2019	Elected non-academician member of the Hungarian Academy of Sciences General Assembly
2016 –	Member , K2 Users' Panel
2014 –	Member , Astronomy and Space Physics Scientific Committee, Hungarian Acad. of Sciences
2015 –	Member , TASC Steering Committee
2012 – 2013	IBVS Editor in chief , Konkoly Observatory, Hungary
2012 – 2019	Member of the IBVS Editorial Board (Information Bulletin on Variable Stars)
2010 – 2019	Member , PLATO (ESA M3 space mission) Board
2008 –	Member , KASC Steering Committee

Working group leadership and membership

2024 –	New Athena Steering Committee member (selected ESA L2 space mission)
2021 –	ARIEL Steering Committee member (ESA M4 space mission)
2020 –	HAYDN Board member (ESA M8 space mission candidate)
2020 – 2022	LSST Transients and Variable Stars and Stars Classification and Characterization subgroup lead
2021 –	HUN-KON Hungarian LSST in-kind contribution lead
2018 –	ARIEL Hungarian Co-I (ESA M4 space mission)
2017 –	LSST member Transients and Variable Stars and Stars, Milky Way & Local

- Volume Science Collaborations
- 2017 – **WEAVE** member Galactic Archeology (GA) and Stellar, Circumstellar and Interstellar Physics (SCIP) Working Groups
- 2016 – **SDSS** External collaborator, RR Lyrae stars
- 2016 – **Leader of the SPEX research group** (Stellar Pulsations, Space Photometry, Exoplanets), Konkoly Observatory, Hungary
- 2015 – **TASC** (TESS Asteroseismic Science Consortium) **Working Group leader** WG#6 RR Lyrae stars and Cepheids
- 2007 – 2012 **KASC Working Group leader** WG#7 Cepheids, KASC WG#13 RR Lyrae stars - theoretical modeling **subgroup chair**
- 2007 – 2016 **Founder and leader of the KIK research group** (Kepler Investigations in Konkoly Observatory), Hungary

Peer-review services

- 2026 **reviewer**, habilitation Eötvös Loránd University, Budapest
- 2025 – **reviewer**, HST Cycle 33 proposals
- 2024 **DSc opponent** (Szabolcs Mészáros) Hungarian Academy of Sciences
- 2023 – **Evaluator**, SAMSH Slovenian postdoctoral COFUND fellowship proposals
- 2023 **reviewer**, habilitation Eötvös Loránd University, Budapest
- 2023 **PhD opponent**, (Máté Kunsági) Eötvös Loránd University, Budapest
- 2023 – **reviewer**, tenure panel, Villanova University
- 2022 – **reviewer**, tenure panel, Croatia
- 2022 – **reviewer**, NASA TESS Guest Investigator panel
- 2022 – **reviewer**, Croatian Science Foundation
- 2021 – **reviewer**, Opticon (telescope time proposals)
- 2020 – **reviewer**, PLATO PSM documents
- 2020 – **reviewer**, ESO OPC (telescope time proposals)
- 2019 – **reviewer**, ERC (Starting, Consolidator Grants)
- 2019 – **reviewer**, habilitation for professorship, EKE
- 2019 – **reviewer**, Fondecyt science funding agency, Chile
- 2018 – **Co-operative international proposals panel member**, Hungarian National Research, Development and Innovation Office (NKFIH)
- 2017 – **Reviewer**, Lendület program of the Hungarian Academy of Sciences
- 2016 – **Physics panel member**, Hungarian National Research, Development and Innovation Office (NKFIH)
- 2016 – **Reviewer**, NASA Postdoctoral Program (NPP)
- 2016 **PhD opponent**, (Andrea Nagy) University of Szeged, Hungary
- 2014 – **Reviewer**, Austrian Science Fund (FWF)
- 2014 – **Reviewer**, Slovenian Research Agency (ARRS)
- 2013 – **Evaluator**, SCIEX Swiss postdoctoral fellowship proposals
- 2013 **PhD opponent**, (Tamás Szalai) University of Szeged, Hungary
- 2012 – **Reviewer**, Polish National Science Center research fund
- 2007 – **Reviewer**, Hungarian Scientific Research Fund (OTKA)
- 2005 – **Regular referee**: Nature Astronomy, Astronomy & Astrophysics, Astrophysical Journal, Astrophysical Journal Letters, Astrophysical Journal Supplement Series, Astrophysics and Space Science, Monthly Notices of the RAS, Astronomische Nachrichten, New Astronomy, Open Astronomy, IBVS, The Observatory

Supervision of graduate students

- 2022 – Szilárd Kálmán Co-operative Doctoral Program in National Defense, *Photometric investigations of exoplanetary systems*, **expert, PhD defence: March 2026**
- 2021 – 2022 Eugenio D’Intino *Application of machine learning applications in astronomy* **co-supervisor**
- 2019 – 2026 Gábor Kovács *Multi-dimensional hydrodynamical modelling of stellar pulsation*, **supervisor, PhD defence: February 2026**
- 2018 – 2026 Forró Adrienn, graduate student, Pulsating stars in space photometric missions, **supervisor, PhD defence: February 2026**
- 2017 – 2018 Áron Juhász, graduate student, *RR Lyrae stars in the K2, Pan-STARRS and Gaia missions*, Konkoly Observatory, Budapest, Hungary, **supervisor**
- 2013 – 2015 Emese Plachy, graduate student, *Investigating chaotic dynamics in variable stars*, Konkoly Observatory, Budapest, Hungary, **co-supervisor**
- 2011 – 2014 László Molnár, graduate student, *Dynamical phenomena in RR Lyrae stars*, Konkoly Observatory, Budapest, Hungary, **co-supervisor**

Supervision of undergraduate students

- 2024 – Balázs Kertész, EKÖP fellowship, ELTE University
- 2024 – Gábor Kovács, EKÖP fellowship, ELTE University
- 2019 Gábor Kovács, OTDK, Stellar pulsation from 1- to 3D, honorable mention
- 2018 – Gábor Kovács, MSc, *Numerical modelling stellar pulsation in multi dimensions*, ELTE
- 2018 Pál Szabó, BSc, *K2 and TESS photometry of pulsating variable stars*
- 2017 Martin Sallai, Konkoly Observatory demonstrator program, *Photometry of Boyajian’s star from Piskés-tető*, ELTE University, Budapest
- 2017 Gábor Kovács, Konkoly Observatory demonstrator program, *Numerical methods*, ELTE University, Budapest
- 2017 Dóra Pintér, BSc thesis, *Eclipsing binaries in the Kepler pixel data*, ELTE University, Budapest
- 2016 Attila Pazsin, BSc thesis, *Long period planets in the Kepler sample*, ELTE University, Budapest
- 2016 Ádám Boldog, BSc thesis, *Photometry of saturated stars in ESA’s PLATO mission*, ELTE University, Budapest
- 2016 Károly Seller, BSc thesis, *Study of ultralow amplitude Cepheid candidates*, ELTE University, Budapest
- 2016 Bálint Seli, BSc thesis *Variability in the Kepler pixel treasure trove*, ELTE University, Budapest
- 2015 Ottó Hanyecz, BSc thesis, *Population synthesis of RR Lyrae variable stars in the Kepler and K2 fields*, ELTE University, Budapest
- 2015 Gergely Dálya, BSc thesis *Searching for stellar and substellar companions of pulsating variable stars*, ELTE University, Budapest, OTDK (national science competition) second place

Teaching activities

- 2013 – **Pulsation Theory** (undergrad. and graduate level) SZTE, Szeged, Hungary
- 2018 – **Exoplanets** (undergrad and graduate level) ELTE University, Budapest
- 2012 – 2018 **Space Photometry** (undergrad. and graduate) ELTE University, Budapest
- 2011 – 2013 **Astronomical Instrumentation** (undergrad.) ELTE, Budapest, Hungary

2003 – 2004 **Stellar structure and evolution** (undergrad.) ELTE, Budapest, Hungary
 1998 – 2004 **Digital Image Processing and CCD Photometry** (undergrad.), ELTE

Membership in scientific societies

2014 – **member**, Roland Eötvös Physical Society
 2014 – **member**, TESS Asteroseismic Science Consortium
 2012 – **Hungarian representative**, European Helio- and Asteroseismology Network
 HELAS
 2012 – **participant**, Hungarian CHEOPS group
 2009 – 2014 **participant**, Hungarian “*Lendület*” Exoplanet Research Group
 2007 – 2014 **participant**, CoRoT – Hungarian Asteroseismology Group
 2007 – 2014 **member**, CoRoT RR Lyrae working group
 2007 – **member**, Kepler Asteroseismic Science Consortium
 2007 – **member of the public body**, Hungarian Academy of Sciences
 2005 – **member**, International Astronomical Union, Division C Education, Outreach and
 Heritage, Division F Planetary Systems and Bioastronomy, Division G Stars and
 Stellar Physics, Commission G4 Pulsating stars
 1989 – **member**, Hungarian Astronomical Association

Invited talks and seminars

Oct 2025 **5th Advanced Arab Astrophysics School (NRIAG)**, *Space photometric missions and large sky surveys*, Egypt (online) [invited talk](#)
 Nov 2024 **Oukaïmeden International School for Astrophysics**, *Space missions relevant to variable star research*, Marrakesh, Morocco [invited talk](#)
 Nov 2024 **Oukaïmeden International School for Astrophysics**, *Introduction to variable stars*, Marrakesh, Morocco [invited talk](#)
 Apr 2024 **African Astronomical Society (Afas) conference**, *Variable stars in the era of space photometry and large sky surveys*, Morocco (online) [invited talk](#)
 Apr 2024 **University of Nova Gorica**, *Variable star classification and machine learning*, Slovenia [invited seminar talk](#)
 Apr 2023 **IAC seminar series**, *The Kepler Pixel Project and Variable Star Classification with Computer Vision*, Instituto de Astrofísica de Canarias (IAC), Tenerife, Spain [invited seminar talk](#)
 May 2023 **European Variable Stars 5th conference**, [invited talk](#)
 Apr 2021 **UNESCO International Round-table, Kazan University Astronomical Observatories in world culture and sciences**, *The past, present and future of Konkoly Observatory, Hungary*, [invited talk](#)
 Aug 2020 **GATE Sumer school Brno/virtual** *The Kepler and K2 missions*, [invited talk](#)
 Sep 2019 **Conference in honor of Miksa Hell**, Budapest, *Transit observations in present-day astronomy*, [invited talk](#)
 May 2017 **General Assembly of the Roland Eötvös Loránd Physics Society**, Budapest, *Solar-like oscillations: a glimpse into the solar and stellar interiors*, [invited talk](#)
 May 2017 **General Assembly of the HAS**, Budapest, *Revolution of exoplanets*, [invited commentary](#)
 Aug 2013 **IAU Symposium 301: Precision Asteroseismology**, Wrocław, Poland, *Blazhko effect in Cepheids and RR Lyrae stars*, [invited review talk](#)
 Aug 2011 **MIT seminar**, MIT, Cambridge, MA, USA, *Asteroseismology with Kepler*, [invited seminar talk](#)

- Jul 2011 **CfA SSP Seminar**, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA, *Period doubling in Kepler RR Lyrae stars*, [invited seminar talk](#)
- Jul 2011 **4th KASC Conference**: From unprecedented data to revolutionary science, Boulder, CO, USA, *Cepheid(s) in the Kepler field*, [invited talk](#)
- Jun 2010 **3rd KASC Conference**: Kepler Asteroseismology in Action, Aarhus, Denmark, *RR Lyrae Research in the Kepler Era*, [invited talk](#)

Professional visits

- Nov 2024 Oukaïmeden Observatory, Morocco
- Apr 2024 University of Nova Gorica, Slovenia, 1 week
- Mar 2023 Instituto de Astrofísica de Canarias (IAC), Tenerife, Spain, 1 week
- April 2013 Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA, 3 weeks
- Nov 2012 University of Sydney, School of Physics, Sydney, Australia, 1 month
- Oct 2011 Asteroseismology in the Space Age program, Kavli Institute for Theoretical Physics, Santa Barbara, CA, USA, 3 weeks
- Jul 2011 Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA, 1 month
- Sep 2009 Observatoire de la Côte d'Azur, Nice, France, 1 week
- Mar 2000 University of Florida, Gainesville, USA, 1 month

Research grants

- 2025 – 2030 Lendület grant of the Hungarian Academy of Sciences LP2025-19 *Challenges from astronomical data explosion: questions and answers from multi-D astrophysical modeling* **PI** 242 MHUF
- 2025 – 2026 NKFI Mecénátúra grant, *From Svábhegy to the stars – social dialogue and science communication based on the latest results of astronomy and space research* **PI** 35 MHUF
- 2024 – 2028 OTKA K-147131 *Investigation of dynamical and astrophysical phenomena and interactions in the rapidly changing gravitational field of multiple stellar systems* **co-I**, **PI**: T. Borkovits, 48 MHUF
- 2024 – 2026 Slovenian-Hungarian OTKA Grant, SNN-147362, *Machine learning algorithms for data-intensive astrophysics in the LSST era* **PI**, 36 MHUF
- 2018 – 2023 Lendület grant of the Hungarian Academy of Sciences, LP2018-7 *Near-field cosmology with pulsating variable stars: Petascale challenge*, **PI**, 199 MHUF
- 2015 – 2019 NKFIH K-115709 *Investigation of dynamical phenomena in pulsating variable stars with space telescopes*, **PI**, 40 MHUF
- 2014 – 2019 'Lendület' grant of the Hungarian Academy of Sciences **PI**: M. Lugaro, *Giant stars as drivers of cosmic chemistry*, **participant**, 214 MHUF
- 2013 – 2016 **Member, Hungarian coordinator**, FP7-SPACE-2012-1 “SPACEINN: *Exploitation of Space Data for Innovative Helio- and Asteroseismology*”
- 2013 – 2014 KTIA URKUT_10-1-2011-0019 National Development Agency, *Extending the asteroseismic program of the Kepler space telescope*, **PI** 6,6 MHUF
- 2011 – 2015 OTKA K83790 *Stellar oscillation studies with the Kepler space telescope: the micromagnitude revolution*, **Principal Investigator** 39.4 MHUF
- 2011 – 2015 **Member, Hungarian coordinator**, FP7-PEOPLE-2010-IRSES Research Network “*ASK: Sounding Stars with Kepler*” 15,000 EUR
- 2010 – 2013 OTKA MB08C-81013 *Structure and evolution of multiple planetary systems*, **PI**: L. Kiss, **participant** 89.1 MHUF
- 2009 – 2014 'Lendület' grant of the Hungarian Academy of Sciences **PI**: L. Kiss, *Evolution of planetary systems around other stars*, **participant**, 275 MHUF

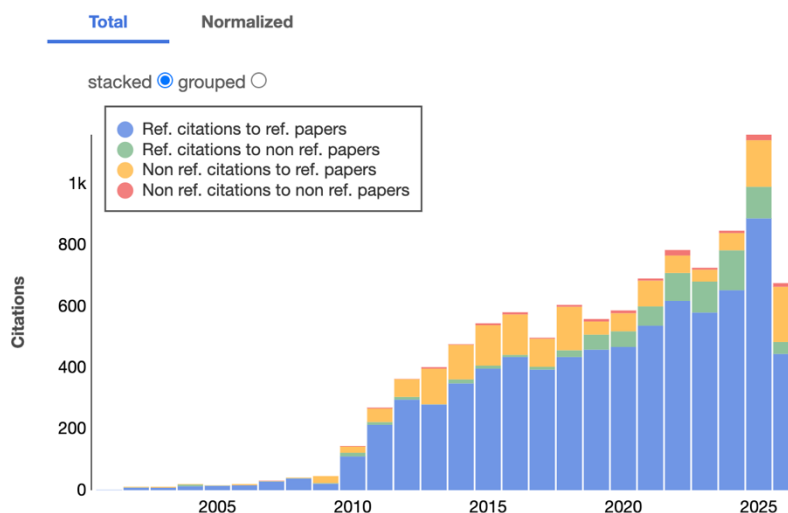
- 2008 – 2009 Grant of the Ministry of Environment and Water and the Hungarian Space Office, Space physics with space instruments–Kepler PI: J. Kelemen, **participant**, 3MHUF
- 2002 – 2005 OTKA T-038440 *Application of time-frequency and nonlinear reconstruction methods*, PI: Z. Kolláth, **participant** 11.2 MHUF
- 2001 – 2003 OTKA T-034615 *Physics of nova and supernova explosions*, **participant**, PI: J. Vinkó, 7.3 MHUF
- 1998 – 2001 OTKA T-026031 *Numerical modeling of nonlinear stellar pulsation*, **participant**, PI: Z. Kolláth, 3.7 MHUF

Dissemination and public outreach

- 55 **short news and blog posts** on a dedicated astronomy portal (hirek.csillagaszat.hu)
- 34 **popular science papers** – a complete list of popular science papers can be found on my homepage <http://www.konkoly.hu/staff/rszabo/papers.html#pop>
- ~150 **public lectures**
- **organizer of the public lectures** in Veszprém during the KASC5 conference, speakers:
Natalie Batalha (NASA Ames): Discovery of distant planets with the Kepler space telescope
Zoltán Kolláth (MTA CSFK): The sound of stars
- frequent **TV appearances** (17 in the last 7 years)
- frequent **radio appearances** (96 in the last 7 years)
- **talks** about astronomy as part of the Unconventional physics courses events in **high schools** and **elementary schools**
- **talks** in secondary schools as part of the Alumni program of the Hungarian Academy of Sciences
- ESO Public Outreach Network (ESON) **Hungarian representative** (2017–2022). I coordinated the translation of 550 ESO news items and that of the ESO website.

Scientometry

Papers published in refereed journals: **142**
 Conference proceedings: **88**
 Circulars and other: **31**
 Cumulative impact factor: **850.6**
 Number of citations: **10097**
 h-index: **52**



Yearly citations to R. Szabó's publications as of Jul 2026
 (source: ADS)

Link to ADS library containing R. Szabó's publications:

https://ui.adsabs.harvard.edu/user/libraries/xhsr_zVrRvCP119wiFSbSA

Languages

Hungarian – native

English – fluent

French – Intermediate

German – beginner