Curriculum Vitae of Róbert Szabó

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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

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	**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 plaquette,** 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

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 konferencia Cork, Ireland, **SOC member**
Nov 2024	RRL/CEP2025 ***Frontiers of classical pulsators – Theory and observations***, conference, Marrakesh, Morocco, **SOC member**
June 2024	EAS2024 – European Astronomical Society konferencia Padua, Italy, **SOC member**
June 2023	EAS2023 – European Astronomical Society konferencia ???, **SOC member**
Apr 2023	International Astronomical Union Symposium No. 376. ***At the cross-roads of astrophysics and cosmology: Period–luminosity relations in the 2020s*** and related spring school **SOC and LOC member**
Sept 2022	RRL/CEP2022 ***Large-scale surveys as bridges between spectroscopy and photometry***, conference, La Palma, Spain, **SOC member**
Jul 2022	*Asteroseismology in the Era of Surveys from Space and the Ground: Stars, Planets, and the Milky Way* TASC6/KASC13 conference, Leuven, Belgium **SOC member**
June 2022	EAS2022 – European Astronomical Society konferencia Valencia, Spain, **SOC member**
Oct 2021	MW-Gaia COST Action, *Star Clusters: the Gaia Revolution*, 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: *Frontiers of Classical Pulsators: Theory and Observations*, Cloudcroft, NM, USA, **SOC member**
Sep 2017	RRL2017: *Revival of the classical pulsators: from Galactic Structure to Stellar Interior Diagnostics conference*, Niepolomice, Poland, 77 participants **SOC Member**
Jun 2017	*TESSting Stellar Astrophysics* KASC10/TASC3 konferencia Birmingham, UK, 164 participants, **SOC member**
Aug 2016	*XII. Torino workshop and the IV. CSFK Astromineralogy workshop,* Budapest, Hungary, 73 participants, **SOC member**
Oct 2015	RRL2015: *High-precision studies of RR Lyrae stars: from dynamical phenomena to mapping galactic structure* Visegrád, Hungary, 70 participants, **LOC chair, SOC chair**
Jun 2013	Sixth Kepler Asteroseismic Science Consortium Conference, *A New Era in Stellar Astrophysics with Kepler*, Sydney, Australia, 105 participants, **SOC member**
Jun 2012	Fifth Kepler Asteroseismic Science Consortium Conference, *Extending the*

Kepler mission: New Horizons in Asteroseismology, Balatonalmádi, Hungary, 120 participants, **LOC chair, SOC member**

Jul 2011 Fourth Kepler Asteroseismic Science Consortium Conference, *From Unprecedented Data to Revolutionary Science*, Boulder CO, USA, 100 participants, **SOC member**

Jun 2010 Third Kepler Asteroseismic Science Consortium Conference, *Kepler Asteroseismology in Action*, 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

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

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**

2021 – 2022 Eugenio D'Intino *Application of machine learning applications in astronomy* **co-supervisor**
2019 – Gábor Kovács *Multi-dimensional hydrodynamical modelling of stellar pulsation,* **supervisor**
2018 – Forró Adrienn, graduate student, Pulsating stars in space photometric missions, **supervisor**
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 Piszkés-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

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, Wroclaw, 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

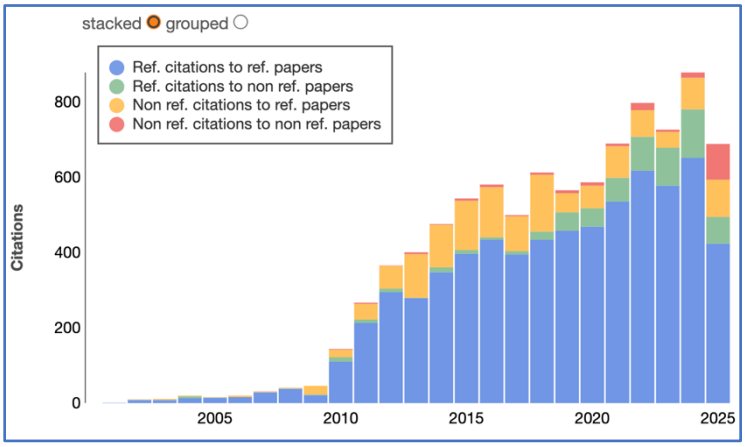
2025 – 2030	Lendület grant of the Hungarian Academy of Sciences LP2025-19 *Challenges from astronomical data explosion: questions and answers from multi-D astrophysical modeling* **PI** 242 MHUF
2025 – 2026	NKFI Mecenatúra grant, *From Svábhegy to the stars – social dialogue and science communication 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)
- 32 **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** (93 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: **139**
Conference proceedings: **85**
Circulars and other**:** **29**
Cumulative impact factor: **800.3**
Number of citations: **9024**
h-index: **51**



Yearly citations to R. Szabó's publications as of July 2025 (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