



Dr. Iharka Magdolna SZÜCS-CSILLIK

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WORK EXPERIENCE

Senior Research Scientist

Astronomical Institute of Romanian Academy [01/03/2005]

Address: Cluj-Napoca (Romania)

Research Assistant

Astronomical Institute of Romanian Academy [01/12/2002 – 01/03/2005]

Address: Cluj-Napoca (Romania)

University research assistant

Babes-Bolyai University, Department of Economics [01/10/2002 – 01/07/2003]

Address: Cluj-Napoca (Romania)

Junior Assistant professor

Babes-Bolyai University, Faculty of Mathematics and Computer Science, Department of Astronomy [01/10/2001 – 01/07/2003]

Address: Cluj-Napoca (Romania)

Associate Instructor

Babes-Bolyai University, Faculty of Mathematics and Computer Science [01/11/1998 – 08/11/2002]

Address: Cluj-Napoca (Romania)

Teacher of Mathematics

Secondary School [01/09/1998 – 01/11/1998]

Address: Doba (Romania)

Teacher of Mathematics

Secondary School [01/09/1997 – 01/11/1997]

Address: Doba (Romania)

EDUCATION AND TRAINING

Diploma in TCM (first level)

MyNexy [15/10/2016 – 15/11/2016]

Address: Gardony (Hungary)

Excellence diploma for contribution to the interdisciplinary research in Archeometry
National Museum of Transylvanian History [01/11/2009 – 01/12/2009]

Address: Iclod (Romania)

Diplom in Celestial Mechanics (Habitable zones in extrasolar planetary systems)
Helmholtz-Institute for Supercomputational Physics [01/09/2003 – 01/10/2003]

Address: Potsdam (Germany)

PhD in Mathematics (Celestial Mechanics, Astronomy)

Babes-Bolyai University, Faculty of Mathematics and Computer Science [01/11/1998 – 01/11/2002]

Address: Cluj-Napoca (Romania)

Master in Hydro- and Astrodynamics

Babes-Bolyai University, Faculty of Mathematics and Computer Science [01/11/1997 – 01/07/1998]

Address: Cluj-Napoca (Romania)

Bachelor in Mathematics

Babes-Bolyai University, Faculty of Mathematics and Computer Science [1993 – 1997]

Address: Cluj-Napoca (Romania)

High school diploma

Theoretical High School [1989 – 1993]

Address: Zalau (Romania)

LANGUAGE SKILLS

Mother tongue(s):

Hungarian , Romanian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2
SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

German

LISTENING B2 READING B1 WRITING B1
SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Spanish

LISTENING A1 READING A1 WRITING A1
SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Italian

LISTENING A1 READING A1 WRITING A1
SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

ORGANISATIONAL SKILLS

Organisational skills

- good organisational skills gained as organizer of different events for children, students, researchers
- good team-leading skills gained as building and managing a research team

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- good communication skills gained through my experience as teacher and researcher (team work)
- excellent contact skills with children and students gained through my experience as teacher from Kindergarten to University.

JOB-RELATED SKILLS

Job-related skills

- good command of quality control processes (reviewer at journals)
- mentoring skills (as teacher and scientific researcher)

MEMBER IN NATIONAL AND INTERNATIONAL SOCIETIES

Member in National and International Societies

Romanian Astronomical Society (CNRA),
Romanian Cultural Astronomical Society (SRPAC),
European Astronomical Society (EAS)
International Astronomical Union (IAU).

REVIEWER IN JOURNALS

Reviewer in Journals

- **Astrophysics and Space Science**
- **Meccanica**
- **Monthly Notices of the Royal Astronomical Society**
- **Serbian Astronomical Journal**
- **Journal of the Astronautical Science**

ASOCIATE EDITOR

Associate Editor

Asian Pacific Journal of Engineering Science and Technology (APJEST)
Journal of Space Exploration (J. Space. Explo.)

CITATIONS

Citations

200

PUBLISHING

Publishing

- 50 papers published in national and international referenced journals
- 30 papers published in national and international proceedings and volumes
- 100 communications at national and international conferences and symposiums
- Self-publishing work

Publishing 12 books in 4 language:

- **1999 Csillik, I.**, Oproiu, T., Szenkovits, F., (coord. Pál. Á): *Ghidul eclipsei totale de Soare 11 august 1999 (The total solar eclipse of 11 August 1999)*, Dacia Press, Cluj, 1999. (in Romanian) ISBN 973-35-0896-9 (pag. 56)
- **2002 Szenkovits, F., Makó, Z., Csillik, I., Bálint, A.:** *Mechanikai rendszerek számítógépes modellezése (Computational modeling of mechanical systems)*, Scientia Press, Cluj, 2002. (in Hungarian) ISBN 973-85422-6-X (pag. 213)
- **2003 Csillik, I.:** *Metode de regularizare în mecanica cerească (Regularization methods in celestial mechanics)*, Casa Cărții de Știință Press, Cluj, 2003. (in Romanian) ISBN 973-686-410-3 (pag. 175)
- **2003 Turcu, V., Csillik, I., Moldovan, D.:** *Calendar Astronomic Cluj-Napoca 2003 Iulie-Decembrie (Astronomical calendar Cluj-Napoca 2003 July-December)*, Nereamia Napocae Press, Cluj, 2003. (in Romanian) ISBN 973-7951-20-4 (pag. 68)
- **2004 Turcu, V., Csillik, I., Moldovan, D.:** *Calendar astronomic 2004 (Astronomical calendar 2004)*, Nereamia Napocae Press, Cluj, 2004. (in Romanian) ISBN 973-7951-59-X (pag. 140)
- **2010 Szücs-Csillik, I., Szücs, I.:** *Csillagászat tanítása kisgyermekeknek (The study of astronomy for little kids)*, Self-publishing Press, Cluj, 2010. (in Hungarian) ISBN 978-973-0-07487-1 (pag. 100)
- **2010 Szücs-Csillik, I., Szücs, I., Mircea, L.:** *Învățarea astronomiei pentru copiii de la grădiniță (The study of astronomy for Kindergarten)*, Self-publishing Press, Cluj, 2010. (in Romanian) ISBN 978-973-0-08553-2 (pag. 100)
- **2010 Szücs-Csillik, I., Szücs, I.:** *Teaching Astronomy to small children*, Self-publishing Press, Cluj, 2010. (in English) ISBN 978-973-0-09239-4 (pag. 100)
- **2010 Szücs-Csillik, I., Szücs, I.:** *Sternkunde Unterricht für Kleinkinder*, Self-publishing Press, Cluj, 2010. (in German) ISBN 978-973-0-09331-5 (pag. 100)
- **2019 Szücs-Csillik, I., Szücs, I.:** *First steps in Astronomy*, Ed. Casa Cărții de Științe, Cluj-Napoca, 2019 (ISBN: 978-606-17-1486-5).
- **2019 Szücs-Csillik, I., Szücs, I., Mircea, L.:** *Primii pași în astronomie. Andragogia didacticii preșcolare*, Ed. Casa Cărții de Științe, Cluj-Napoca, 2019 (978-606-17-1507-7).
- **2019 Szücs-Csillik, I., Szücs, I.:** *Első lépések a csillagászatban. Az óvodai didaktika andragógiája*, Ed. Casa Cărții de Științe, Cluj-Napoca, 2019 (978-606-17-1503-9).

FELLOWSHIPS

Fellowships

- 1998, 1999, 2000, 2001, 2003 (1 Month): Visiting Junior Assistant Professor, Eötvös Loránd University, Faculty of Science, Department of Astronomy, Budapest, Hungary (DOMUS research fellow).
- 1999, 2001, 2003, 2005 (1 Month): Visiting Scientific Researcher, Konkoly Observatory, Hungarian Academy Of Science, Budapest, Hungary.
- 2001 August: Participant of the Second Odessa Astronomical Summer School for Young Scientists, Astronomy and beyond: Astrophysics, Astrochemistry, and Astrobiology, Odessa, Ukraine.
- 2003 January: Visiting Assistant, University Konstantina Filozofa, Nitra, Slovakia (CEEPUS research fellow).
- 2003 September: Participant of the International third Helmholtz Summer School, Helmholtz Institute for Super Computational Physics, Potsdam, Germany.
- 2017 August-September: Participant of the Satellite Dynamics and Space Missions: Theory and Applications of Celestial Mechanics School, San Martino al Cimino, Italy.
- 2019 December: Visiting Scientific researcher, IMCCE (Institut de mécanique céleste et de Calcul des Ephémérides - Institute of celestial mechanics and ephemeris calculations), Paris Observatory, France.
- 2020 February: Participant of the I-CELMECH New frontiers of Celestial Mechanics: Theory and Applications training school, Milano, Italy.

PROJECTS AND GRANTS

Projects and Grants

- 1999/2001: **The National University Research Council**, Ministry of Education and Research, Babes-Bolyai University, *Quantitative and qualitative methods in celestial mechanics, in theory of stellar structure and evolution* (with V. Ureche, T. Oproiu, V. Pop, R. Zapotinschi, S. Berinde)
- 2001: **Sapientia Research Institute**, University, Natural Science, Mathematics, *Numerical model of mechanical systems* (with F. Szenkovits, Z. Mako, A. Balint)
- 2001: **The National University Research Council**, Ministry of Education and Research, Babes-Bolyai University, *Study of some Cepheid stars light curve variability* (with E. Codreanu, A. Pop)
- 2003/2005: **The National University Research Council**, Ministry of Education and Research, Babes-Bolyai University, CNCSIS A, 336, 28, 42, *Mathematical methods in viscose fluid dynamics and celestial mechanics. Applications.* (with M. Kohr, T. Grosan, I. Pop, R. Trimbilas, M. Barbosu, C. Pintea, C. Bercea, D. Campean, M. Jaladat, M. Berinde, N. Bendea)
- 2003/2004: **Sapientia Research Institute**, Natural Science, Mathematics, E, CS, 432, 1923, *Perturbative and fuzzy methods in celestial mechanics* (with F. Szenkovits, Z. Mako, E. Garda-Matyas)
- 2004/2008: **Centrul National de management programme** (CNMP), Proiect finantat la programul 4 "Parteneriate in domeniile prioritare", Tematica "VIII-Spatiu si Securitate", Proiectul nr. 1331: *Statie de Urmarire Radio Spatiale Adinca cu Utilizari Multiple*, (with coordonator Univ. Technica Cluj-Napoca, partener BITNET, ROSA, Observatorul Astronomic, director Palade Tudor)
- 2007-2010: **Centrul National de management programme** (CNMP), Proiect finantat la programul 4 "Parteneriate in domeniile prioritare", Tematica "VIII-Spatiu si Securitate", Proiectul nr. 1331: *Statie de Urmarire Radio Spatiale Adinca cu Utilizari Multiple*, (with coordonator Univ. Technica Cluj-Napoca, partener BITNET, ROSA, Observatorul Astronomic, director Palade Tudor), Contract CNMP: 81-004/2007
- 2013-2016: **Romanian National Authority for Scientific Research**, CNDI-UEFISCDI, project number PN-II-PT-PCCA-2011-3.2-0651 (AMHEOS)
- 2017: Planul Sectorial al Ministerului Cercetarii si Inovarii, Dezvoltarea capacitatii de monitorizare si coordonare a activitatii de supraceghere spatiala, pentru prognoza riscurilor asociate caderii din atmosfera si din cosmos a corpurilor naturale si artificiale, project number 11PS/20.11.2017 (AGROSS)
- 2017-2018: CENTRE OF COMPETENCE FOR PLANETARY SCIENCES, project number 118/14.11.2016 PNIII Star AGRONIM ASTRES.
- 2018-2020: Capacitati si servicii institutionale pentru cercetarea, monitorizarea si prognozarea riscurilor din spatiul extraatmosferic, project number 16PCCDI/2018 (SAFESPACE)