

Curriculum Vitae — Tamás Görbe

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Contact details

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		arXiv	arxiv.org/a/gorbe_t.1	YouTube	TamasGorbe

Employment

09/2020 - 08/2021	Academic Development Fellow	}	School of Mathematics, University of Leeds
09/2018 - 08/2020	Marie Curie Research Fellow		
01/2018 - 08/2018	Assistant Professor	}	Department of Theoretical Physics, University of Szeged
12/2017 - 07/2017	Research Fellow		
09/2016 - 06/2017	Predocctoral Research Fellow		

Education

2013 - 2016 **PhD in Mathematical Physics**, University of Szeged
Thesis: *Integrable many-body systems of Calogero-Ruijsenaars type*
Supervisor: László Fehér

2011 - 2013 **MSc in Applied Mathematics**, University of Szeged
Thesis: *Group-theoretic treatment of integrable systems*

2007 - 2011 **BSc in Mathematics**, University of Szeged
Thesis: *Lie groups and related algebraic structures*

Research Interests: Mathematical Physics; Integrable Systems

Research Grants

12/2020 - **Hungarian Scientific Research Fund (OTKA)** Grant no. K-134946
11/2024 *Applications of Integrable Quantum Field Theories*
Type: Research Grant | Role: **Co-I** | PI: Zoltán Bajnok
Value: HUF 45,782,000 (\approx £113,200)

09/2018 - **Marie Skłodowska-Curie Individual Fellowship (MSCA-IF)** Project acronym: INTSYS
08/2020 *Algebraic, Geometric, and Field-theoretic Aspects of Integrable Many-Body Systems*
Type: Fellowship | Role: **PI** | PI: Tamás Görbe
Value: EUR 195,454.80 (\approx £173,500)

09/2016 - **New National Excellence Programme (ÚNKP)** Grant no. ÚNKP-16-3
06/2017 *Geometric and field-theoretic aspects of integrable systems*
Type: Fellowship | Role: **PI** | PI: Tamás Görbe
Value: HUF 3,500,000 (\approx £10,000)

09/2014 - **Hungarian Scientific Research Fund (OTKA)** Grant no. K-111697
08/2018 *Group-theoretic aspects of integrable systems and their dualities*
Type: Research Grant | Role: **Co-I** | PI: László Fehér
Value: HUF 6,670,000 (\approx £19,000)

03/2013 - **National Excellence Programme (NKP)** Grant no. A2-ELMH-12-0027
01/2014 *The trigonometric $BC(n)$ Sutherland system and its action-angle dual*
Type: Fellowship | Role: **PI** | PI: Tamás Görbe
Value: HUF 1,000,000 (\approx £2,850)

07/2009 - **Hungarian Scientific Research Fund (OTKA)** Grant no. K-77400
12/2013 *Integrable many-body and field-theoretic models*
Type: Research Grant | Role: **Student participant** | PI: László Fehér
Value: HUF 14,656,000 (\approx £41,750)

Scientific Societies: Public body of the Hungarian Academy of Sciences • European Mathematical Society • János Bolyai Mathematical Society • London Mathematical Society • Roland Eötvös Physical Society

Acted as Referee/Reviewer for: Géza Györgyi Award - Wigner RCP • Journal of Mathematical Analysis and Applications • Journal of Nonlinear Mathematical Physics • Letters in Mathematical Physics • Symmetry, Integrability and Geometry (SIGMA) • Mathematical Reviews • Zentralblatt MATH

• External examiner for the PhD of Tamás Gombor (Budapest). Thesis title: Integrable Boundary Sigma Models

Short Academic Visits

- University of Talca (06/2019) Host: Jan Felipe van Diejen
- University of Leeds (05/2017 - 06/2017) Hosts: Oleg Chalykh and Simon Ruijsenaars
- Chalmers University of Technology, Gothenburg (05/2017) Host: Martin Hallnäs
- University of Leeds (10/2016) Host: Simon Ruijsenaars
- University of York (10/2016) Hosts: Ed Corrigan and Niall MacKay
- Loughborough University (10/2016) Host: Martin Hallnäs
- CRM Ennio De Giorgi, Pisa (12/2014 - 01/2015) Research Programme: "Perspectives in Lie Theory"
- CRM, Barcelona, (09-14/09/2013) Research Programme: "Geometry and Dynamics of Integrable Systems"

Recent Conference/Seminar Talks

- Mathematical Physics Seminar (10/10/2019) University of York
- Integrable Systems, Special Functions and Combinatorics, Conference, Sabhal Mòr Ostaig, Isle of Skye, Scotland
- Mathematical Physics Colloquium (30/06/2019), University of Talca, Chile
- Integrable Systems Seminar (2/11/2018) University of Leeds
- Integrable Systems and Mathematical Physics Seminar (23/10/2018) University of Glasgow
- Theoretical Physics Seminar (15/12/2017) Wigner RCP, Budapest, Hungary
- Finite Dimensional Integrable Systems in Geometry and Math.Phys. (FDIS-2017) Conference, CRM, Barcelona
- Analysis and Probability Seminar (16/05/2017) Chalmers University of Technology
- Integrable Systems Seminar (21/10/2016) University of Leeds
- Mathematical Physics Seminar (20/10/2016) University of York
- Geometry and Mathematical Physics Seminar (05/10/2016) Loughborough University
- Integrable systems and Quantum Symmetries (ISQS-23) Conference (26/06/2015) Prague
- Representation Theory Seminar (16/04/2015) KdV Institute, University of Amsterdam

Teaching Experience

Teaching duties in the academic year 2020/2021:

MATH1055 Numbers and Vectors

Undergraduate and Masters modules (since 2010):

Analytical Mechanics • Application of Symbolic Languages in Physics • Group Theory in Physics • Linear Algebra for Physicists • MATH1050 Calculus and Mathematical Analysis • MATH1055 Numbers and Vectors • MATH2375 Linear Differential Equations & Transforms • Mathematical Methods in Physics 1 & 2 • Selected Topics in Math. Phys. • Statistical Physics

Service

- Lecturer in the "Introduction to Integrability" Online Lecture Series (London Mathematical Society)
- Local organizer of the Royal Institution Masterclasses (School of Mathematics, University of Leeds)
- Organizer of the "Algebra, Geometry and Integrable Systems" Colloquium Series (University of Leeds)
- Co-organizer of the "Integrable Systems" Seminar Series (University of Leeds)
- Co-organizer of the Leeds European Study Group with Industry (ESGI162)

Outreach

- Social media: Mathematics and science communication via twitter (twitter.com/TamasGorbe)
- Social media: Videos on Mathematics on my YouTube channel (youtube.com/user/TamasGorbe)
- Public lecture: *An Elementary Derivation of Kepler's Laws of Planetary Motion* via YouTube
- Public lecture: *Enchanting Symmetries, the Gems of Maths* as part of a TV series called Everyone's Academy
- Public lecture: *Symmetry as a tool – from Planets to Particles* in the "Szabadegyetem – Szeged" lecture series
- Workshops at secondary schools across Yorkshire as part of the Leeds Festival of Science, University of Leeds
- SciArt Exhibition *Exceptionally Beautiful Symmetries – String Art* (tamasgorbe.com/symmetry)

Awards & Honours & Fellowships

- 2019 *MSCA Fellow of the Week*, Marie Skłodowska-Curie Actions
- 2019 *Academic Development Fellowship*, School of Mathematics, University of Leeds
- 2019 *Brain Star Series*, European Researchers' Night, Hungary
- 2019 *30 under 30 / Science*, Forbes magazine, Hungary
- 2018 *Pro Laudanda Promotione Award*, PhD research of outstanding quality, University of Szeged, Hungary
- 2017 *Gyula Farkas Memorial Award*, János Bolyai Mathematical Society, Hungary
- 2017 *50 Talented Young Hungarians*, La femme magazine, Hungary (<http://lafemme.hu/tehetseg>)
- 2016 *Junior Templeton Fellowship*, Hungarian Templeton Program (<http://templetonprogram.hu/en>)
- 2016 *List of Excellence – Silver degree* among PhD students, University of Szeged
- 2015 *3rd prize*, Scientific Competition, Hungarian Academy of Sciences
- 2015 *List of Excellence – Bronze degree* among PhD students, University of Szeged
- 2013 *Excellent Student of Faculty*, Faculty of Science and Informatics, Uni. of Szeged
- 2013 *Special Award*, XXXI. National Scientific Students' Associations Conference, Budapest, Hungary
- 2012 *1st prize*, Scientific Students' Associations Conference, Szeged, Hungary