

# Curriculum Vitae

## PERSONAL

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Name: **Gergely Székely**  
Date of birth: 3rd October 1979  
Citizenship: Hungarian  
Webpage: <http://www.renyi.hu/~turms/>

## EDUCATION

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2010 PhD (in mathematics), Eötvös Loránd University, Budapest  
Title: *First-Order Logic Investigation of Relativity Theory*  
Advisers: Hajnal Andréka and Judit X. Madarász  
2004-2007 PhD school, Eötvös Loránd University, Budapest  
2004 M.Sc. diploma (mathematician), Eötvös Loránd University, Budapest  
Title: *A First Order Logic Investigation of the Twin Paradox and Related Subjects*  
Advisers: István Németi and Judit X. Madarász  
1998-2004 Eötvös Loránd University, Budapest

## EMPLOYMENT

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2010- Research Fellow at Alfréd Rényi Institute of Mathematics  
2009- Assistant Professor at National University of Public Service  
(Zrínyi Miklós University of National Defence)  
2008-2010 Assistant Research Fellow at Alfréd Rényi Institute of Mathematics  
2008-2009 External Lecturer at Zrínyi Miklós University of National Defence  
2007-2009 External Lecturer at Technical University of Budapest

## LANGUAGE SKILL

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Hungarian mother tongue  
English intermediate level  
Italian elementary level

## RESEARCH

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Since 2003, I have been doing research on Logical Foundations of Relativity Theory in the Algebraic Logic Research Division of Alfréd Rényi Institute of Mathematics.

Supporting grants in the past:

Hungarian Scientific Research Funds: K-73601, K-81188, PD-84093.  
Royal Society International Exchanges Scheme: IE110369.

I have 27 scientific publications. 6 book chapters, 18 papers in high quality peer reviewed international journals, such as *The Review of Symbolic Logic*, *Reports on Mathematical Physics*, *International Journal of Theoretical Physics*, *Foundations of Physics*, and *Classical and Quantum Gravity*.

## SELECTED TALKS AT INTERNATIONAL CONFERENCES

- 2015 “Tutorial on Logic and the Theory of Relativity,”  
5th World Congress and School on Universal Logic, June 20 - 24 2015, University of Istanbul (invited)
- 2013 “Operationality in the Axiomatic Foundations of Relativity Theory,”  
Foundations of Physics 2013, Ludwig-Maximilians-Universität, München, Germany.
- 2012 Tutorial on logical analysis of relativity theories I. & II.  
First International Conference on Logic and Relativity,  
MTA Alfréd Rényi Institute of Mathematics, Budapest, Hungary. (plenary)
- 2012 “Existence of Faster Than Light Signals Implies Hypercomputation Already in Special Relativity”  
Turing Centenary Conference, University of Cambridge, United Kingdom.
- 2011 “Closed Timelike Curves in Relativistic Hypercomputation,” Unconventional Computation 2011,  
HyperNet 2011: Hypercomputation workshop, Turku, Finland.
- 2010 “Axiomatization of Physics in a Logical Framework,”  
Physics and Computation 2010, On the Nile, Egypt. (invited, plenary)
- 2010 “Axiomatization of spacetime geometries,” Non-Euclidean Geometry and its Applications  
7-th Bolyai-Gauss-Lobachevsky Conference, Cluj-Napoca (Kolozsvár), Romania.
- 2008 “Reverse Thinking and Axiomatic Method in Foundations of Physics,”  
Trends in Logic VI, Brussels, Belgium.

## CONFERENCE ORGANIZATION

- 2017 Logic, Relativity and Beyond 3rd conference, August 23-27, MTA Rényi Institute.
- 2016 Advances in Modal Logic 2016, Budapest, 30 August – 2 September, CEU.
- 2015 Logic, Relativity and Beyond, 2nd international conference, Budapest, August 9-13, MTA Rényi Institute.
- 2012 First International Conference on Logic and Relativity, Budapest, September 8 - 12, MTA Rényi Institute.

## TEACHING

Eötvös Loránd University:

- 2015 Logical Foundations of General Relativity
- 2013 Logical Foundations of Special Relativity
- 2011, 2012 Introduction to algebra
- 2005-2006 Mathematical Analysis (in Hungarian)

National University of Public Service / Zrínyi Miklós University of National Defence:

- 2008- Mathematics I, Mathematics M II, Mathematics M III, Mathematics MKE IV,  
Applied Mathematics, Probability theory, etc. (in Hungarian)

Technical University of Budapest:

- 2007-2009 Mathematics A1b, Mathematics A2b, Mathematics A3 (in Hungarian)

*Advising*

- I am the PhD supervisor of Péter Juhász at Eötvös Loránd University.
- I am the PhD supervisor of Attila Molnár at Eötvös Loránd University.
- I have supervised 3 students participating in Conferences of Student’s Scholarly Circles.
- I was the PhD co-supervisor (together with Jean Paul Van Bendegem) of Koen Lefever who defended his PhD thesis in 2017 at Vrije Universiteit Brussel.