

ATTILA MOLNÁR

PERSONAL INFORMATION

born Budapest, 3/12/1986.
email molnar.h.attila@gmail.com
website <http://phil.elte.hu/attila/>
phone 20/455-2129
fields of interest modal logic, algebraic logic, provability logic, category theory, foundations of physics, epistemic logic, logic in cognitive science

EDUCATION

2011-2014 Eötvös Loránd University
Institute of Philosophy

PhD TITLE OF DISSERTATION: Applications of Modal Logic in Scientific Theories
DESCRIPTION: The dissertation is based on the research done with the Relativity and Logic research Group lead by H. Andréka and I. Németi in the Rényi Mathematical Institute. Its main topic is the local and global application of modal logic in the foundation of special and general relativity theory. The main philosophical problems it deals with are the following: the formal logical treatment of physical necessity and the thought experiments used in physics, complete first-order modal axiomatic systems describing fragments of these, and axiomatic foundations of branching (indeterminist) spacetimes.
Supervisor: Gergely Székely

2005-2011 Eötvös Loránd University
Faculty of Science, Faculty of Humanities

MA/MSC MA/MSC: Certified Teacher of Mathematics and Philosophy
TITLE OF MASTER THESIS: Provability and its Logic in Mathematics.
Supervisor: Ferenc Csaba.
TITLE OF MASTER THESIS FOR TEACHING: Dyscalculia and Mathematical Talent.
Supervisor: Ágota Krisztián.

2001-2005 Szent László Gimnázium

High school ELECTIVE COURSES: Informatics (4 years), Physics (2 years)

PUBLICATIONS

2014 A. Molnár, G. Székely. Axiomatizing Relativistic Dynamics using Formal Thought Experiments. *Synthese* (accepted in August, 2014).
<http://philsci-archive.pitt.edu/9914/>

2013 A. Molnár. Lehetségesség a fizikában. *Elpis* 2013/1..
<http://elpis.hu/issues/12/elpis12.molnar.pdf>

2013 A. Molnár. Tagadás és dualitás. In Zvolenszky *et.al.* (Eds.) *Nehogy érvgyűlölők legyünk.*

2013 A. Molnár. Strukturális és modális variációk egy formalizált catuskötőre .
Keréknyomok 2013/7.

EDITORIAL EXPERIENCE

- 2014 L. E. Szabó. Problems of Open Future. (Eds: T. Bitai, M. Gömöri, Z. Gyenis, P. Mekis, A. Molnár). Typotex. (English translation of 'A nyitott jövő problémája' for its author professor E. Szabó's 60th birthday.)
- 2013 Nehogy érvgyűlölők legyünk. (Eds: Zs. Zvolenszky, A. Molnár, P. Mekis, R. Markovich, S. Jellinek, M. Gömöri, T. Bitai). L'Harmattan. (Festschrift of András Máté)

CONFERENCE TALKS

- 2014 A. Molnár, G. Székely: Modal logic of clocks: Modalizing a first-order theory of time to get a better understanding of relativity theories. *Logic Colloquium*.
- 2013 A. Molnár, G. Székely: Operationality in the Axiomatic Foundations of Relativity Theory. *Foundations of Physics*.
- 2013 A. Molnár: Operacionalitás, modalitás, cirkularitás. „Amiről lehet beszélni”.
- 2012 A. Molnár, G. Székely: First International Conference on Logic and Relativity. *On the Notion of Possibility in Relativity Theory*.
- 2012 A. Molnár: Fizikai lehetséges világok. *Én–Nyelv–Valóság*.
- 2012 A. Molnár: Lehet-e beszélni lehetséges individuumokról a fizikában?. „Amiről nem lehet beszélni...”.

RESEARCH

- 2012 *Algebraic logic; investigation of the logical structure of relativity theory*. OTKA: No. 81188. Location: MTA Rényi Alfréd Matematikai Kutatóintézet. Joined in July, 2013.

TEACHING EXPERIENCES

- 2014-2015 Fall *Branching Spacetimes and Temporal Logic*. Logic Department, ELTE BTK.
- 2013-2014 Spring *Metalogic*. Logic Department, ELTE BTK. In cooperation with Péter Mekis.
- 2013-2014 Fall *First-order Modal Logic*. Logic Department, ELTE BTK.
- 2013-2014 Fall *Advanced Modal Logic*. Logic Department, ELTE BTK.
- 2013-2014 Fall *Basic Modal Logic*. Logic Department, ELTE BTK.
- 2012-2013 Spring *L^AT_EX*. Logic Department, ELTE BTK. In coop. with Péter Mekis, Tamás Bitai.
- 2012-2013 Spring *Pre-calculus*. Mathematics Department, National University of Public Service.
- 2012-2013 Fall *Modal Logic*. Logic Department, ELTE BTK.
- 2011-2012 Spring *Peano Arithmetic*. Logic Department, ELTE BTK. In coop. with Péter Mekis.
- 2011-2012 Fall *Metalogic*. Logic Department, ELTE BTK. In cooperation with Péter Mekis.
- 2011-2012 *High school teacher of Mathematics and Philosophy*. Diana Utcai Általános Iskola és Gimnázium. 14 hours/week
- 2006-2011 *Teaching assistant*. Logic Department, ELTE BTK.

COMPUTER SKILLS

Basic R, Linux (Mint, Ubuntu, Debian)

Intermediate OpenOffice, HTML, JavaScript, MATLAB, GNU Octave, Microsoft Windows

Advanced L^AT_EX, TikZ

Languages HUNGARIAN · Mothertongue

ENGLISH · Intermediate (conversationally fluent)

GERMAN · Basic (simple words and phrases only)