

MORTEZA MONIRI

Department of Mathematics, Shahid Beheshti University, Evin, Tehran, Iran.
(+98) 21-2990-2907 ◊ <http://facultymembers.sbu.ac.ir/mortezamoniri/> ◊ m-moniri@sbu.ac.ir

RESEARCH INTERESTS

- Mathematical Logic (First-order Arithmetic, Intuitionistic Logic, Modal Logic)
- Logic in Computer Science (Logical Aspects of Complexity Theory)
- Philosophy of Mathematics

ACADEMIC POSITIONS

Shahid Beheshti University

- Associate Professor, Department of Mathematics 2010 - Present
- Assistant Professor, Department of Mathematics 2002 - 2010

University of Leeds

- Research Visitor, Department of Mathematics 2008 - 2009

Institute for Research in Fundamental Sciences (IPM)

- Resident Researcher, School of Mathematics 2007 - 2014
- Associate Researcher, School of Mathematics 2002 - 2007
- Postdoctoral Researcher, School of Mathematics 2000 - 2002

EDUCATION

Institute for Research in Fundamental Sciences (IPM) Tehran, Iran
Ph.D. in Mathematical Logic 1996 - 2000

University of Tehran Tehran, Iran
M.Sc. in Mathematics 1990 - 1993

Ferdowsi University of Mashhad Mashhad, Iran
B.Sc. in Mathematics 1985 - 1990

ACADEMIC SERVICE

Shahid Beheshti University

- Member of Graduate Affairs Committee, Faculty of Mathematical Sciences 2016 - 2020
- Director, Department of Mathematics 2011 - 2015
- Member of Research Council, Faculty of Mathematical Sciences 2011 - 2015

Institute for Research in Fundamental Sciences (IPM)

- Director, Mathematical Logic Group, School of Mathematics 2010 - 2014
- Member of Scientific Council, School of Mathematics 2010 - 2014

PUBLICATIONS

- [1] Some Weak Fragments of HA and Certain Closure Properties, (with Mojtaba Moniri), *Journal of Symbolic Logic*, 67, 91-103, 2002.
- [2] \mathcal{H} -theories, Fragments of HA and PA-normality, *Archive for Mathematical Logic*, 41, 101-105, 2002.
- [3] Weak Arithmetics and Kripke Models, *Mathematical Logic Quarterly*, 48, 157-160, 2002.
- [4] Independence Results for Weak Systems of Intuitionistic Arithmetic, *Mathematical Logic Quarterly*, 49, 250-254, 2003.
- [5] On Two Questions About Feasibly Constructive Arithmetic, *Mathematical Logic Quarterly*, 49, 425-427, 2003.
- [6] Intuitionistic Weak Arithmetic, *Archive for Mathematical Logic*, 42, 791-796, 2003.
- [7] Some Results On Kripke Models Over An Arbitrary Fixed Frame, (with S. M. Bagheri), *Mathematical Logic Quarterly*, 49, 479-484, 2003.
- [8] Comparing Constructive Arithmetical Theories Based on NP-PIND and coNP-PIND, *Journal of Logic and Computation*, 13, 881-888, 2003.
- [9] Corrigendum to Weak Arithmetics and Kripke Models, *Mathematical Logic Quarterly*, 50, 637-638, 2004.
- [10] Polynomial Induction and Length Minimization in Intuitionistic Bounded Arithmetic, *Mathematical Logic Quarterly*, 51, 73-76, 2005.
- [11] An Independence Result for Intuitionistic Bounded Arithmetic, *Journal of Logic and Computation*, 16, 199-204, 2006.
- [12] Model Theory of Bounded Arithmetic With Applications to Independence Results, in *Lecture Notes in Logic*, 26, 2006.
- [13] Preservation Theorems for Bounded Formulas, *Archive for Mathematical Logic*, 46, 9-14, 2006.
- [14] Preservation theorems for Kripke models, (with Mostafa Zaare), *Mathematical Logic Quarterly*, 55, 177-184, 2009.
- [15] Provably Recursive Functions of Constructive and Relatively Constructive Theories, *Archive for Mathematical Logic*, 49, 291-300, 2010.
- [16] Homomorphisms and Chains of Kripke Models, (with Mostafa Zaare), *Archive for Mathematical Logic*, 50, 431-443, 2011.
- [17] Fuzzy and Intuitionistic Fuzzy Turing Machines, *Fundamenta Informaticae*, 123, 305-315, 2013.
- [18] Logical Characterization of Filters on BL-algebras, (with H. Farahani R. A. Borzooei), *Journal of Multiple-Valued Logic and Soft Computing*, 20, 75-87, 2013.
- [19] Preservation Theorems in Lukasiewicz Model Theory, (with S. M. Bagheri), *Iranian Journal of Fuzzy Systems*, 10, 103-113, 2013.
- [20] Cuts and Overspill Properties in Models of Bounded Arithmetic, (with S. H. Sajjadi), *Journal of Mathematical Sciences and Informatics*, 3, 59-66, 2013.

- [21] Regular Cuts in Models of Bounded Arithmetic, (with S. H. Sajjadi),
Bulletin of the Section of Logic, 42, 11-20, 2013.
- [22] Neutrosophic Deductive Filters on BL-Algebras, (with H. Farahani R. A. Borzooei),
Journal of Intelligent Fuzzy Systems, 26, 2993-3004, 2014.
- [23] Neighborhood Semantics for Basic and Intuitionistic Logic, (with F. Shirmohammadzadeh),
Logic and Logical Philosophy, 24, 339-355, 2015.
- [24] From forcing to satisfaction in Kripke models of intuitionistic predicate logic, (with M. Abiri and M. Zaare),
Logic Journal of the IGPL, 26, 264-474, 2018.
- [25] Ultraproduct for Quantum Structures, (with E. Shirinkalam),
Logic and Logical Philosophy, 28, 157-171, 2018.
- [26] Forcing and Satisfaction in Kripke Intuitionistic Arithmetic, (with M. Abiri and M. Zaare),
Logic Journal of the IGPL, 27, 659-670, 2019.
- [27] An Infinitary Axiomatization of Dynamic Topological Logic, (with S. Chopoghloo),
Logic Journal of the IGPL, Published Online, 2020.
- [28] A Strongly Complete Axiomatization of Intuitionistic Temporal Logic, (with S. Chopoghloo),
Journal of Logic and Computation, Accepted.

BOOKS

- [1] *Philosophy of Mathematics for Mathematicians* (in Persian)
Shahid Beheshti University Press, 2020.

PH.D. STUDENTS

- Mostafa Zaare (2009)
- Hadi Farahani (2011)
- Hossein Sajadi (2012)
- Fateme Shirmohammadzadeh (2017)
- Elahe Shirinkalam (2018)
- Maryam Abiri (2018)
- Somayeh Chopoghloo (2020)

M.SC. STUDENTS

- **Current Students**
 - Kian Adib (Mathematics, Shahid Beheshti University)
 - Ali Naseri (Mathematics, Shahid Beheshti University)
- **Former Students**
 - Nader Khorrami (Philosophy of Science, Sharif University of Technology, 2006).
 - Ali Valizadeh (Mathematics, Shahid Beheshti University, 2008).
 - Rahim Ramezani (Mathematics, Shahid Beheshti University, 2010).
 - Amir Hossein Sharafi (Mathematics, Shahid Beheshti University, 2011).

- Azam Sadeghian (Computer Science, Tarbiat Modares University, 2012).
- Marjan Movahedan Hagh (Soft Computing, Shahid Beheshti University, 2012).
- Somaye Khalilinejad (Soft Computing, Shahid Beheshti University, 2012).
- Vahid Azizi Nasrabadi (Mathematics, Shahid Beheshti University, 2012).
- Azam Noori (Mathematics, Shahid Beheshti University, 2012).
- Somayeh Chopoghloo (Soft Computing, Shahid Beheshti University, 2012).
- Marjan Movahedan (Soft Computing, Shahid Beheshti University, 2012).
- Vahid Azizi (Mathematics, Shahid Beheshti University, 2012).
- Mojdeh Moradi (Mathematics, Shahid Beheshti University, 2014).
- Samko Feizollahzadeh (Mathematics, Shahid Beheshti University, 2014).
- Mehrdad Saadatipoor (Mathematics, Shahid Beheshti University, 2014).
- Freydoon Tavakolli (Mathematics, Shahid Beheshti University, 2014).
- Mohammad Mohammadi Talvar (Mathematics, Shahid Beheshti University, 2015).
- Koosha Shafiee (Mathematics, Shahid Beheshti University, 2015).
- Safieh Khazaiee (Mathematics, Shahid Beheshti University, 2015).
- Sara Elahi (Mathematics, Shahid Beheshti University, 2015).
- Hamed Rezaiee (Mathematics, Shahid Beheshti University, 2015).
- Amin Takhsideh (Mathematics, Shahid Beheshti University, 2015).
- Zohreh Rasoulkhani (Soft Computing, Shahid Beheshti University, 2017)
- Majid Alaei (Soft Computing, Shahid Beheshti University, 2017)
- Rezvan Goodarzi (Soft Computing, Shahid Beheshti University, 2017)
- Mohammad Babaei (Soft Computing, Shahid Beheshti University, 2017)
- Saman Parvaneh (Soft Computing, Shahid Beheshti University, 2017)
- Ehsan Hemmati Aghdam (Soft Computing, Shahid Beheshti University, 2017)
- Atieh Pourderakhshan (Soft Computing, Shahid Beheshti University, 2018)

SOME TALKS

1. Classical Equivalence of $\mathcal{H}(T)$ and T, Logic Colloquium 1999, Utrecht.
2. Some Results on Intuitionistic Π_1 -induction, Logic Colloquium 2000, Paris.
3. Intuitionistic Weak Arithmetics, Kripke Models and Provably Total Functions, Logic Colloquium 2001, Vienna.
4. Independence Results for Weak Systems of Intuitionistic Arithmetic, Logic Colloquium 2002, Muenster.
5. Intuitionistic Bounded Arithmetic, International Workshop “Logical Models of Reasoning and Computation”, Steklov Mathematical Institute, 2008, Moscow. (Invited)
6. Kripke Model Theory, Logic Seminar, University of Leeds, 2008, Leeds. (Invited)

CONFERENCE ORGANIZATION

1. Workshop and Conference on Logic, Algebra, and Arithmetic
Institute for Research in Fundamental Sciences (IPM), October 18-22, 2003.
2. Workshop on Quantum Computing
Institute for Research in Fundamental Sciences (IPM), August 1-5, 2004.
3. Workshop on Modal Logic and Computer Science
Institute for Research in Fundamental Sciences (IPM), June 3, 2010.
4. Annual Seminar on Mathematical Logic and its Applications
University of Isfahan, November 30 December 1, 2011.
5. Annual Seminar on Mathematical Logic and its Applications
Shahid Bahonar University of Kerman, November 14-15, 2012.
6. Annual Seminar on Mathematical Logic and its Applications
Shahid Beheshti University, December 18-19, 2013.
7. 6th Annual Conference of Iran Association For Logic
Shahid Beheshti University, January 30-31, 2019.