

Curriculum Vitae

Andrei-Valentin Sipoş

1 Personal Data

- Born: March 25, 1991, Bucharest, Romania.
- Citizenship, nationality: Romanian.
- Email address: `Andrei.Sipos@imar.ro`
- Web address: `http://imar.ro/~asipos/`

2 Scientific Interests

Proof theory, proof mining, model theory.

3 Employment

- since November 2014: Research Assistant at the “Simion Stoilow” Institute of Mathematics of the Romanian Academy.

4 Education

- 2017 – Ph.D. in Mathematics, University of Bucharest, Romania.
Advisor: Laurenţiu Leuştean.
Thesis title: *Contributions to proof mining.*
- 2014 – M.Sc. in Mathematics (Algebra), University of Bucharest, Romania.
- 2012 – B.Sc. in Mathematics, University of Bucharest, Romania.
- 2012 – B.Sc. in Computer Science, University of Bucharest, Romania.

5 Research Grants

- January 2012 - May 2013: Member of the Grant *Universal Logic Methods for Computer Science*, CNCS Romania, PN-II-ID-PCE-2011-3-0439.
- January 2015 - October 2016: Member of the Grant *Proof mining in metric analysis, geometric group theory and ergodic theory*, CNCS Romania, PN-II-ID-PCE-2011-3-0383.
- October 2015 - September 2017: Member of the Grant *Modelling uncertainty in non-classical logics*, CNCS Romania, PN-II-RU-TE-2014-4-0730.

6 Professional Activities

- Coordinator of the Seminar on Logic in Computer Science (2013 - 2014), University of Bucharest, Romania.
- Coordinator of the UB/IMAR Logic Seminar (2014 -), University of Bucharest and the “Simion Stoilow” Institute of Mathematics of the Romanian Academy, Bucharest, Romania.

7 Administrative Duties

- Student Member of the Council of the Faculty of Mathematics and Computer Science (2011 - 2012), University of Bucharest, Romania.
- Student Member of the Council of the Doctoral School of Mathematics (2015 - 2017), University of Bucharest, Romania.

8 Participation in Schools and Conferences

- National School on Algebra, 20th (Mangalia, Romania, September 2012) and 21st (Bucharest, Romania, September 2013) editions.
- Second Fall School on Quantum Geometry (Erlangen, Germany, October 2013).
- Eighth Congress of Romanian Mathematicians (Iași, Romania, June 2015) – with the talk *Codensity and Stone spaces*.
- Scandinavian Logic Society Summer School in Logic 2015 (Helsinki, Finland, July 2015).
- Logic Colloquium 2015 (Helsinki, Finland, August 2015) – with the talk *Codensity and Stone spaces*.
- PhDs in Logic VIII (Darmstadt, Germany, May 2016) – with the talk *Proof mining and families of mappings*.

- Logic Colloquium 2016 (Leeds, United Kingdom, August 2016) – with the talk *Proof mining and positive-bounded logic*.
- DVMLG Colloquium Logicum 2016 (Hamburg, Germany, September 2016) – with the talk *Proof mining and positive-bounded logic*.
- PhDs in Logic IX (Bochum, Germany, May 2017) – with the talk *Proof mining in convex optimization*.
- FROM 2017 (Bucharest, Romania, July 2017) – with the talk *Representable functions in Moisil logic*.
- Logic Colloquium 2017 (Stockholm, Sweden, August 2017) – with the talk *Proof mining in convex optimization*.
- BuCal 2017 (Bucharest, Romania, September 2017) – with the talk *Playing with the logic of Moisil: nuances, games and representations*.

9 Scientific visits

- June 22 - July 6, 2016: Universidad de Sevilla, Spain (invited by Genaro López-Acedo)
Invited talk: *Effective results on algorithms using strict pseudocontractions*.
- November 7-25, 2016: Technische Universität Darmstadt, Germany (invited by Ulrich Kohlenbach)
Invited talk: *Proof mining in L^p spaces*.

10 Papers

1. “Quantitative results on the Ishikawa iteration of Lipschitz pseudo-contractions” (with L. Leuştean and V. Radu),
Journal of Nonlinear and Convex Analysis, Volume 17, Number 11, 2277–2292, 2016.
2. “Effective results on a fixed point algorithm for families of nonlinear mappings”,
Annals of Pure and Applied Logic, Volume 168, Issue 1, 112–128, 2017.
3. “A note on the Mann iteration for k -strict pseudocontractions in Banach spaces”,
Numerical Functional Analysis and Optimization, Volume 38, Issue 1, 80–90, 2017.
4. “Codensity and Stone spaces”,
arXiv:1409.1370 [math.CT], 2016. Accepted for publication in *Mathematica Slovaca*.
5. “Proof mining in L^p spaces”,
arXiv:1609.02080 [math.LO], 2016. Submitted.
6. “An application of proof mining to the proximal point algorithm in CAT(0) spaces”
(with L. Leuştean),
arXiv:1707.09169 [math.OC], 2017. Submitted.

11 Teaching

Assistant for Undergraduate Courses

- *Mathematical and Computational Logic*, 1st year tutorial, University of Bucharest, Romania, Winter Term 2013/2014, 2014/2015, 2015/2016, 2016/2017.
- *Logic Programming*, 2nd year laboratory and tutorial, University of Bucharest, Romania, Summer Term 2013/2014, 2014/2015, 2015/2016, 2016/2017.
- *Declarative Programming*, 3rd year laboratory, University of Bucharest, Romania, Winter Term 2014/2015.

Assistant for Graduate Courses

- *Model Theory*, 1st Master's year tutorial, University of Bucharest, Romania, Summer Term 2016/2017.