Filip Mazowiecki

Curriculum Vitae

Personal data

citizenship	Polish
address	Domaine Universitaire, 351 cours de la liberation
	33405 Talence Cedex, France
e-mail	filip.mazowiecki@u-bordeaux.fr
homepage	`https://www.labri.fr/perso/fmazowiecki`
research interests	formal verification, automata theory

Employment

since Dec 2017	Postdoc, University of Bordeaux
Apr 2017 – Nov 2017	Research Assistant, University of Oxford
	supervised by James Worrell
Mar 2016 – Mar 2017	Research Assistant, University of Warwick
	supervised by Ranko Lazić

Education

Feb 2016	PhD in computer science, University of Warsaw
	jointly supervised by Filip Murlak and Emanuel Kieroński
2013	Msc in computer science, University of Warsaw
2011	Msc in mathematics, University of Warsaw

Long research visits

Aug 2016	**Pontificia Universidad Católica de Chile**
	one month research stay with Cristian Riveros
Oct 2014 – Apr 2015	**Pontificia Universidad Católica de Chile**
	research stay with Cristian Riveros
Oct 2012 – Feb 2013	**University of Wrocław**
	research stay with Emanuel Kieroński

My projects

2017-2019	granted project "Branching vector addition systems with states"
	within the 2017 IdEx Bordeaux Post-Doctoral Fellowship Program
2014-2016	principal investigator of Poland's National Science Center grant
	PRELUDIUM "Frontiers of tractability for recursive queries"

Participation in projects

2018-	participant in ANR project "BraVAS"
2016-**2017**	participant in EPSRC grant in Warwick and Oxford "Counter Automata: Verification and Synthesis"
2016	participant in Poland's National Science Center grant "Frontiers of automatic verification: new methods of analysis of infinite-state systems"
2013	participant in Poland's National Science Center grant "Decision Procedures for Verification"

Conference publications

- Shaull Almagor, Michaël Cadilhac, Filip Mazowiecki and Guillermo A. Pérez: Weak Cost Register Automata are Still Powerful. In DLT 2018.
- Michael Blondin, Christoph Haase and Filip Mazowiecki: Affine Extensions of Integer Vector Addition Systems with States. In CONCUR 2018.
- Laure Daviaud, Marcin Jurdziński, Ranko Lazić, Filip Mazowiecki, Guillermo A. Pérez and James Worrell: When is Containment Decidable for Probabilistic Automata? In ICALP 2018.
- Filip Mazowiecki and Cristian Riveros. Pumping lemmas for weighted automata. In STACS 2018.
- Diego Figueira, Ranko Lazić, Jérôme Leroux, Filip Mazowiecki and Grégoire Sutre: Polynomial-Space Completeness of Reachability for Succinct Branching VASS in Dimension One. In ICALP 2017.
- Lorenzo Clemente, Sławomir Lasota, Ranko Lazić and Filip Mazowiecki: Timed pushdown automata and branching vector addition systems. In LICS 2017.
- Filip Mazowiecki and Cristian Riveros. Copyless Cost-Register Automata: Structure, Expressiveness, and Closure Properties. In STACS 2016.
- Filip Mazowiecki and Cristian Riveros. Maximal partition logic: towards a logical characterization of copyless cost register automata. In CSL 2015.
- Filip Mazowiecki, Joanna Ochremiak and Adam Witkowski. Eliminating recursion from monadic datalog programs on trees. In MFCS 2015.
- Filip Mazowiecki, Filip Murlak and Adam Witkowski. Monadic Datalog and Regular Tree Pattern Queries. In MFCS 2014.
- Witold Charatonik, Emanuel Kieroński and Filip Mazowiecki. Decidability of weak logics with deterministic transitive closure. In CSL-LICS 2014.
- Saguy Benaim, Michael Benedikt, Witold Charatonik, Emanuel Kieroński, Rastislav Lenhardt, Filip Mazowiecki and James Worrell. Complexity of Two-Variable Logic on Finite Trees. In ICALP 2013.

Journal publications

- Filip Mazowiecki and Cristian Riveros. Copyless Cost-Register Automata: Structure, Expressiveness, and Closure Properties. Accepted to JCSS 2018.
- Saguy Benaim, Michael Benedikt, Witold Charatonik, Emanuel Kieroński, Rastislav Lenhardt, Filip Mazowiecki and James Worrell. Complexity of Two-Variable Logic on Finite Trees. In ACM TOCL 2016.
- Filip Mazowiecki, Filip Murlak and Adam Witkowski. Monadic Datalog and Regular Tree Pattern Queries. In ACM TODS 2016.

Popular science publications

- Filip Mazowiecki. Jak definiować ciągi rekurencyjne? Delta, November 2018.

Student supervision

2018	co-supervision of Corentin Barloy (L3)
2018	co-supervision of Quentin de Goër de Herve (L3)
2018	co-supervision of Ritam Raha (M1)

Organization

since Jan 2018	co-organizer of the team seminar "Formal Methods" in LaBRI
Jul 2018	co-organizer of "Autobóz" a workshop on automata, logic and games theory

Refereeing

conferences	FSTTCS, ICDT, LICS, CSL, RP, FOSSACS, MFCS, CONCUR, DLT, GANDALF
journals	LMCS, TOCS, JCSS

Teaching

exercise classes	Decision Procedures, Automata on Infinite Words, Introductory Programming (imperative approach)
additional classes	Introduction to mathematics

Other

Jan/Jun 2014	volunteer for WIOSNA association, program AKADEMIA PRZYSZŁOŚCI
2011-2013	member of the PhD Students' union at the faculty of Mathematics, Informatics and Mechanics, University of Warsaw
languages	Polish (mother), English (fluent), Spanish (basic)