

# Filip Mazowiecki

## *Curriculum Vitae*

### Personal data

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<b>citizenship</b>	Polish
<b>address</b>	Domaine Universitaire, 351 cours de la liberation 33405 Talence Cedex, France
<b>e-mail</b>	filip.mazowiecki@u-bordeaux.fr
<b>homepage</b>	<a href="https://www.labri.fr/perso/fmazowiecki">https://www.labri.fr/perso/fmazowiecki</a>
<b>research interests</b>	vector addition systems, weighted automata

### Employment

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

### Education

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

### Long research visits

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<b>Aug 2016</b>	<b>Pontificia Universidad Católica de Chile</b> one month research visit, supervised by Cristian Riveros
<b>Oct 2014 – Apr 2015</b>	<b>Pontificia Universidad Católica de Chile</b> research internship, supervised by Cristian Riveros
<b>Oct 2012 – Feb 2013</b>	<b>University of Wrocław</b> research internship, supervised by Emanuel Kieroński

### My projects

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<b>2017-</b>	granted project “Branching vector addition systems with states” within the 2017 IdEx Bordeaux Post-Doctoral Fellowship Program.
<b>2014-2016</b>	principal investigator of Poland’s National Science Center grant PRELUDIUM “Frontiers of tractability for recursive queries”

## Participation in projects

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- 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

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- Filip Mazowiecki and Cristian Riveros. Pumping lemmas for weighted automata. Accepted to 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

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- 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.

## Refereeing

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- conferences** FSTTCS, ICDT, LICS, CSL, RP, FOSSACS, MFCS
- journals** LMCS, TOCS, JCSS

## Teaching

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

## Other

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<b>since Jan 2018</b>	Co-organizer of the Formal Methods seminar in Labri
<b>Jan/Jun 2014</b>	Volunteer for WIOSNA association, program AKADEMIA PRZYSZŁOŚCI
<b>2011-2013</b>	Member of the PhD Students' union at the faculty of Mathematics, Informatics and Mechanics, University of Warsaw
<b>languages</b>	Polish (mother), English (fluent), Spanish (basic)