

# František Blahoudek



---

## *Curriculum Vitae*

PERSONAL DATA AND CONTACT INFORMATION	<i>Date of Birth:</i> August 30, 1986 <i>Phone:</i> +420 602 610 417 <i>E-mail:</i> frantisek.blahoudek@gmail.com <i>web page:</i> <a href="https://fi.muni.cz/~xblahoud">https://fi.muni.cz/~xblahoud</a>	Botanická 68a, room C415 602 00 Brno Czech Republic
ACADEMIC POSITIONS	<b>Faculty of Informatics, Masaryk University, Brno, Czech Republic:</b> <b>Research and development worker</b>	Sep. 2014 – Sep. 2017
EDUCATION	<b>Faculty of Informatics, Masaryk University, Brno, Czech Republic:</b> <b>Doctoral Degree (Ph.D.)</b> in Computer Science • <i>Thesis:</i> <b>Automata for Formal Methods: Little Steps Towards Perfection</b> • <i>Advisors:</i> Jan Strejček (since 2013) and Mojmír Křetínský (until 2013) • <i>Reviewers:</i> Orna Kupferman and Christel Baier <b>Doctoral Degree (RNDr.)</b> in Computer Science • <i>Thesis:</i> LTL and $\omega$ -automata <b>Master Degree (Mgr.)</b> in Computer Science • <i>Master thesis:</i> Translation of an LTL fragment to deterministic Rabin and Streett automata <b>Bachelor Degree (Bc.)</b> in Applied Computer Science • <i>Bachelor thesis:</i> Tools for Automated Heap Analysis (in Czech)	2012 – June 2018 2015 2012 2009
RESEARCH INTERESTS	<b>Formal Verification:</b> <ul style="list-style-type: none"><li>• translations of LTL into automata</li><li>• <math>\omega</math>-automata, games</li><li>• model checking, probabilistic model checking</li><li>• program analysis (static analysis, shape analysis)</li></ul>	
PROJECTS AND TOOLS	<b>LTL and <math>\omega</math>-Automata</b> <b>LTL3DRA:</b> Translation of LTL\GUX into deterministic automata <b>HOAF:</b> Format for exchanging $\omega$ -automata <b>LTL3TELA:</b> Translation of LTL to transition-based Emerson-Lei automata <b>Seminators:</b> Semi-determinization of generalized Büchi automata	
INVITED TALKS	<b>IST Austria</b> <i>Title:</i> Advances in $\omega$ -Automata for Formal Methods <b>TU Munich</b> <i>Title:</i> Complementation of Semi-Deterministic Automata <b>UL Brussels</b> <i>Title:</i> Advances in $\omega$ -Automata for Formal Methods <b>LaBRI Bordeaux</b> <i>Title:</i> Semi-Deterministic Büchi Automata: How to Obtain and Complement Them	June 2017 May 2018 June 2018 June 2018

