

Employment

Freelance Researcher BUT FIT November 2023–

- Research focus: Performance Analysis and Testing.

Postdoc Researcher BUT FIT September 2020–October 2023

- Research focus: Performance Analysis and Testing; Automata Theory and Practice; Monitoring of Distributed Manufacturing Execution Systems; Comparative Study of Reasoning about Regular Properties.

Junior Research Assistant BUT FIT September 2014–September 2020

- Research focus: Performance Analysis and Testing; Formal Analysis and Verification; Automatic Complexity Analysis; Shape Analysis; Automata Theory and Practice; Automata-based Decision Procedures.
- Teaching: Introduction to Software Engineering; Java Programming Language; C Programming Language.
- Co-funded by Red Hat company.

Education

Brno University of Technology BUT FIT Fall 2009–Fall 2020

- Doctoral degree in Computer and Information Science, September 2020.
 - Dissertation Thesis: *Automata in Decision Procedures and Performance Analysis*
- Master's degree in Computer and Information Science, June 2014.
 - Master's Thesis: *A Decision Procedure for WSkS Logic*.
 - Graduated with honors; Dean's award for Master's Thesis.
- Bachelor's degree in Computer and Information Science, June 2012.
 - Bachelor's Thesis: *C Compiler in Python*.
 - Graduated with honors; Dean's award for Bachelor's Thesis.

Selected Technical Projects

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- **Perun** (2016–). Performance Version System and Performance analysis tool suite. Main Author. Python.
 - **libmata** (2022–2023). Efficient open source automata library. Significant Contributor. C++, Cython/Python.
 - **Gaston** (2014–2017). Efficient solver for WS1S logic. Main Author. C++.

Selected Awards

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- **Third Prize, Student EEICT 2014:** Awarded 3rd prize for my master's thesis in Student EECIT competition.
 - **First Prize, Student EEICT 2012:** Awarded 1st prize for my bachelor's thesis in Student EECIT competition.

Selected Skills, Languages and Technologies

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- Python; C++; C; Java; C#.NET.
 - DevOps; Data Analysis; Experienced Speaker; Experienced Student Supervisor.
 - English Language (C2); German Language (A1); Japanese Language (A1).

Selected Publications

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- FIEDOR Tomáš, HOLÍK Lukáš, HRUŠKA Martin, ROGALEWICZ Adam, SÍČ Juraj a VARGOVČÍK Pavol. *Reasoning about Regular Properties: A Comparative Study*. In Proc. of CADE'29. Springer 2023.
 - FIEDOR Tomáš, PAVELA Jiří, ROGALEWICZ Adam a VOJNAR Tomáš. *Perun: Performance Version System*. In Proc. of ICSME'22. IEEE, 2022.
 - FIEDOR Tomáš, HOLÍK Lukáš, ROGALEWICZ Adam, SINN Moritz, VOJNAR Tomáš a ZULEGER Florian. *From Shapes to Amortized Complexity*. In Proc. of VMCAI'18. Springer, 2018.
 - FIEDOR Tomáš, HOLÍK Lukáš, JANKŮ Petr, LENGÁL Ondřej a VOJNAR Tomáš. *Lazy Automata Techniques for WS1S*. In Proc. of TACAS'17. Springer, 2017.