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# Jakub Bulín

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## RNDr. Jakub Bulín, Ph.D.



### Assistant Professor

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## Teaching

- [NAIL062 Propositional and Predicate Logic](#)
  - [Lecture Mon 9:00](#)
  - [Tutorial Tue 10:40](#)
  - [Tutorial Tue 14:00 \(in Czech\)](#)
- NMAG535 Computational Logic
  - *(Not open this semester.)*

[My classes in SIS](#)

Informal inquiries about thesis topics (as well as other topics) are most welcome.

## Research

My primary research interests lie in the intersection of theoretical computer science, computational logic, and universal algebra. A majority of my work is concerned with the complexity of the constraint satisfaction problem. I am also interested in constraint modeling, automated theorem proving, and artificial intelligence.

## Selected Publications

- *J. Bulín, A. Krokhin, and J. Opršal. Algebraic approach to promise constraint satisfaction*, Proceedings of the Annual ACM Symposium on Theory of Computing, 602–613 (2019)
- *J. Bulín. On the complexity of H-coloring for special oriented trees*, European Journal of Combinatorics 69, 54–75 (2018)
- *L. Barto, J. Bulín. Deciding absorption in relational structures*, Algebra Universalis 78(1), 3–18 (2017)
- *J. Bulín, D. Delić, M. Jackson, and T. Niven. A finer reduction of constraint problems to digraphs*, Logical Methods in Computer Science 11(4:18), 1–33 (2015)

[Arxiv](#) , [Google Scholar](#)