Reijo Jaakkola- Curriculum Vitae

7 September 2021

Education

- 23 April 2021, Master of Science, Master's Programme in Mathematics, Tampere University, Finland
- 29 April 2020, Bachelor of Science, Degree Programme in Mathematics and Statistics, Tampere University, Finland

Language Skills

- Finnish – native
- English – excellent (C1)
- Swedish – moderate (B1)

Publications

1. **Uniform guarded fragments**, 25th International Conference on Foundations of Software Science and Computation Structures, April 2-7, 2022, Munich (Germany)
2. **Ordered fragments of first-order logic**, 46th International Symposium on Mathematical Foundations of Computer Science, August 23-27, 2021, Tallinn (Estonia)

Current and future employments

Doctoral researcher at Tampere University, September 2021 → August 2025

I was fortunate enough to obtain a four-year founding for my doctoral studies. I will be conducting research on modal fragments of first-order logic.

Previous employments

Content Producer at MAOL ry, March 2021 → December 2021

Organizing a math club for students of various level and background (elementary school students and high school students). The purpose of the club is to cover various topics in elementary mathematics that are not covered in the standard school curriculum. We meet once every two weeks.

Software Engineer at Bitwise Oy, May →August 2021

Started by doing software development for embedded linux platforms using mostly C++ and Qt, ended up doing frontend with Angular for a web application.

Research Assistant at University of Helsinki, March 2021 → April 2021

During this employment I focused on preparing my article on ordered fragments of first-order logic. I also developed, together with Academy Research Fellow Antti Kuusisto, background theory for new computationally well-behaved logics that have access to recursive definitions.

Software Engineer at CADMATIC Oy, May 2019 → September 2020

Together with my team I developed a new 2D-platform for the drawings of CADMATIC software. My tasks consisted mostly of re-implementing functionalities that were present in the old 2D-platform, but in a more user-friendly way. Programming was done mostly in C++, while following the principles of object-oriented programming.

Research Assistant at Tampere University, November 2018 → September 2020

I made exercises using STACK-environment for courses on graph theory and mathematical logic. One of the bigger projects was to make exercises where the students are asked to make logical derivations in a given formal deduction system. I implement such exercises for propositional and first-order logic. These exercises were later employed successfully in two courses that revolved around the aforementioned logics. The position was funded by the ÄlyOppi-project.

Teaching

- I have been running exercise classes for various courses at Tampere University, including Analyysi A, Analyysi B, Lineaarialgebra 1B, Lauselogiikka and Modaali- ja predikaattilogiikka.