

Csanád Telbisz

Computer scientist · PhD Student

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🎓 Education and Degrees

- 2025– **Computer Science PhD**, *Budapest University of Technology and Economics*.
Advised by Dr. Oszkár Semeráth
- 2023–2025 **Computer Engineering MSc**, *Budapest University of Technology and Economics*.
Thesis: Efficient Automatic Verification of Concurrent Programs 📄
- 2019–2023 **Computer Engineering BSc**, *Budapest University of Technology and Economics*.
Thesis: Partial Order Reduction for Abstraction-Based Verification of Concurrent Software in the Theta Framework 📄

🌐 Employment

- 2024–2025 **IncQuery Labs - PTC**, *Budapest, HU*, Junior Researcher.
Adapting novel concepts of systems engineering to industrial processes (validation of SysML v2 models).
- 2020–2025 **Budapest University of Technology and Economics**, *Budapest, HU*, Teaching Assistant.
Delivering practical lectures and computer lab sessions; assembling and correcting homeworks, tests and exams.
- 2018–2022 **Piarist Grammar School**, *Budapest, HU*, Teaching Assistant.
Teaching the basics of programming and robotics to secondary school students.

👤 Internships

- 2022 **IncQuery Labs**, *Budapest, HU*, Software Engineering & Research Intern.
Exploring and benchmarking version-controlled systems model storage options.

💡 Skills and Interests

Research Formal methods, model checking, systems engineering, SAT/SMT, concurrency

Development Java, Kotlin, Python, C, C++, Git, CI/CD

Tools Theta 🔄 (contributor)

Languages Hungarian (native), English (advanced), French (intermediate)

Awards and Scholarships

- 2025 **Nokia Young Scientist Award.**
- 2025 **First place at the National Scientific Students' Associations Conference.**
- 2024 **Special Award of the Rector of the University.**
- 2022, 2024 **First place at the Scientific Students' Associations Conference.**
- 2023 **Second place at the Scientific Students' Associations Conference.**
- 2024–2026 **"EKÖP" Research Scholarship.**
- 2023–2024 **National Young Talent Research Scholarship (NTP-NFTÖ).**
- 2022–2025 **National Academic Scholarship (NFÖD).**
- 2020–2025 **Scholarship of the Faculty of BME-VIK (KBME).**

Selected Publications

- VERDI'25 **Reasoning with Happens-Before Relations about Concurrent Programs in the Theta Framework,** 
Cs. Telbisz, L. Bajczi, D. Szekeres, A. Vörös, I. Majzik.
- SPIN'25 **On-the-fly Cone-of-Influence Reduction for Model Checking Concurrent Software,** 
Cs. Telbisz, L. Bajczi, D. Szekeres, A. Vörös.
- TACAS'25 **On Stability in a Happens-Before Propagator for Concurrent Programs (Reproducibility Study),** 
L. Bajczi, Cs. Telbisz, D. Szekeres, A. Vörös.
- TACAS'25 **Theta: Various Approaches for Concurrent Program Verification (Competition Contribution),** 
Cs. Telbisz, L. Bajczi, D. Szekeres, A. Vörös.

Full lists  csanadtelbisz.github.io/publications.html  IBI2BQM AAAAJ  0000-0002-6260-5908

Teaching

Courses Automated Verification Techniques · Automated Software Engineering · Introduction to the Theory of Computing 1 · Algorithm Theory · Basics of Programming 1