Ladóczki Bence

1990 August 31

hikari.code@gmail.com

+36 70 407 6093

Budapest

linkedin/bence-ladóczki-569299124

Education

B.Sc. Electrical Engineering BME Budapest | 2014

M.Sc. in Computational Science Kobe University | 2017

Ph.D in Computational Science Kobe University | 2020

Skills

Design : HTML, CSS

Computational : Fortran, Bash

Programming : C, C++, Python, Java

Languages: Hungarian, Japanese, English, Chinese, Russian

Hobbies

Reading
Tennis
Horse Riding
Traveling

Work Experience

2013 Jan - Internship - Morgan Stanley | Budapest — 1 Year

Server side Java implementations. GUI application programming in C#. Google Protocol Buffer technology and recursive tree algorithms. During this 1 year project I delivered two main applications that are still running in the production environment of the bond trading team. The Java based monitoring application is a very substantial part of the infrastructure as the firm was facing serious losses due to trading flow imperfections.

2014 Jan - Research Assistant, Budapest University of Tech. and Eco. — 5 Years

Failure Localization in SDN Networks

2019 Oct - Postdoc Researcher, Budapest University of Tech. and Eco. — Current

Consensus algorithms in blockchains, atomic swaps, exploring ways to underpin distributed computing with blockchains.

Publications

2013 — An Efficient Linear-Scaling CCSD(T) Method Based on Local Molecular Orbitals
Journal of Chemical Physics - Optimized CCSD(T) calculations.

2019 — Stochastic perturbation theory in a limited configuration space
Journal of Chemical Physics - A paper on size-inconsistency error and truncations in the Hilbert space.

2020 — Third-order Epstein - Nesbet perturbative correction to the initiator approximation of configuration space quantum Monte Carlo
Journal of Chemical Physics - Epstein - Nesbet perturbative corrections in the third-order for the initiator approximation of the configuration space quantum Monte Carlo

2022 — Stochastic analysis of the success rate in atomic swaps
BCCA (Submitted) - Merton jump diffusion model applied to crypto currency atomic swaps.

Research and Projects

2014 - Perturbative extension of the Model Space Quantum Monte Carlo Algorithm (MSQMC) - MEXT FLAGSHIP2020 - Kobe University

2014 - Failure Localization in SDN Networks. Network Coding in Transport Networks - BME-Artificial Intelligence FIKP - Budapest University of Tech. and Eco.

Conferences

2015 — Robust Network Coding in Transport Networks
Hong Kong IEEE Infocom

2019 — Monitoring-Flow Based Network Verification and Failure Localization in Software Defined Networks
Paris IEEE International Conference on Computer Communications

2022 — The Fourth International Conference on Blockchain Computing and Applications (BCCA 2022)
San Antonio, USA