Curriculum Vitae

PERSONAL INFORMATION

József Konczer



- Budapest, Hungary
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- https://konczer.github.io/
- https://www.linkedin.com/in/józsef-konczer-25290189/

Date of birth 21/02/1989

Nationality Hungarian

Citizenship Slovak

WORK EXPERIENCE

2020-2022 Consultant

Wolfram Research, Inc. https://www.wolfram.com/

- Developing Game Theory functionality
- As a member of the Machine Learning Group
- Related public materials:
- □ Language Design in Wolfram Language [Game Theory] Part 1 and Part 2
- Introducing Game Theory (WTC 2021 presentation)

Business or sector Computer Software

2020- Researcher

HELORO s.r.o. https://www.heloro.sk/en

- Research and development in the field of Energetics
- Innovating waste heat recovery methods using Thermoelectric Generators (TEG)

Business or sector Energy Sector

2020 June, July

Teaching Assistant

2020 Wolfram Summer School https://education.wolfram.com/summer-school/

- Helping for students in various computational based projects
- Answering questions regarding Theoretical Physics

Business or sector Education

2018-2022

Module leader

Milestone Institute http://milestone-institute.org

- Teaching and preparing course material for
- □ Data Science, Thermodynamics, Mechanics,
- PAT-ENGAA test preparation, Chaos and Order

Business or sector Education

2017-2020 Mentor

Milestone Institute http://milestone-institute.org

Interdisciplinary education

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Business or sector Education

2013-2016 Assistant research fellow

Institute for Particle and Nuclear Physics, Wigner Research Centre for Physics, Hungarian Academy of Sciences http://www.rmki.kfki.hu/en/home

- Performing numerical simulations in integrable quantum field theories
- Understanding AdS/CFT

Business or sector Research

2012, 2009 fall Demonstrator

Budapest University of Technology and Economics (BME), Hungary; Faculty of Natural Sciences http://www.bme.hu/

 Teaching Physics II (electrodynamics and modern physics) for 3rd year BSc students of BME Faculty of Electrical Engineering and Informatics

Business or sector Education

EDUCATION AND TRAINING

2013- PhD

Eötvös Loránd University (ELTE), Hungary; Institute for Theoretical Physics

- Theme: Integrable methods in the AdS/CFT correspondence
- Supervisor: Dr. Zoltán Bajnok
- Principal subjects: Particle physics, Integrable (quantum field) theories, conformal field theories, AdS/CFT duality
- The Doctoral Pre-Degree Certificate (Absolutorium) gained in 2017

2010-2013 MSc in Theoretical Physics

Excellent with highest honours

Budapest University of Technology and Economics (BME), Hungary; Faculty of Natural Sciences

- Thesis: Integrable methods in gauge and string theories
- Supervisor: Dr. Zoltán Bajnok
- Principal subjects: Statistical physics, Particle physics

2007-2010 BSc in Physics

Excellent

Budapest University of Technology and Economics (BME), Hungary Faculty of Natural Sciences

- Thesis: Fisher information in quantum mechanics
- Supervisor: Prof. Dénes Petz
- Principal subjects: Theoretical Physics, Information Theory

1999-2007 Final examination

Excellent

Selye János Gimnázium, Slovakia

PERSONAL SKILLS

Mother tongue

Hungarian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C1

English

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pre oblasť energetiky. ATP Journal 10/2022, str. 36 year XXIX, ISSN 1335-2237, 2022

IELTS Academic, 2020 June: Listening 8.5, Reading 8.0, Writing 6.5, Speaking 7.0, Overall Band Score 7.5 Slovak C1 B2 B2 Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages Communication skills grew up in multicultural environment good in international communication able to work in team open to new challenges and new knowledge leadership (for two years president of Eugene Wigner College for Advanced Studies) Organisational / managerial skills member of student government on the faculty of natural sciences for one year in 2010 experience in organisation (organiser in Hungarian Nuclear Societies Young Generation Network in 2010) experience in measuring with scientific instruments Technical skills and competences Programming skills: C, C++, Python, bash, HTML, Matlab, Mathematica Computer skills Development tools: GIT, CVS Intermediate level user of office applications: Word, Excel, PowerPoint and LibreOffice Advanced level user of typesetting application: LaTeX Intermediate level user of photo editor applications: Inkscape, gimp Linux, Mac OS and Windows user skills diving (one ★ diver since 2013 at CMAS), paragliding, waveboarding, roller skating, Other skills Hobby drawing **Driving licence** Category B since 2008 ADDITIONAL INFORMATION A. Hegedus, J. Konczer. Strong coupling results from the numerical solution of the **Publications** quantum spectral curve. <u>arXiv:1604.02346</u> JHEP 1608 (2016) 061, 2016 Z. Bajnok, F. Buccheri, L. Holló, J. Konczer and G. Takacs. Finite volume form factors in the presence of integrable defect. hep-th 1312.5576 Nucl. Phys. B882 (2014) 501-531, 2014 Popular articles József Konczer, Botond Sánta, PhD., Ing. Jozef Konczer st., Ing. Tomáš Potásch, Ing. Ignác Havran, Ing. Lajos Csonka. Priemyselný výskum a vývoj inovačných technológií

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Conferences and Internacional courses

Wolfram Virtual Technology Conference, Virtual Champaign IL, 18 – 21 October 2021
 Eastern European Machine Learning Summer School, Virtual Budapest Hungary, 7-15

- 2020 Wolfram Summer School, Virtual, June, July, 2020
- Crunch Conference (data engineering & data analytics), Budapest, Hungary 29-31
 October, 2018 (as technological representative of Wolfram Research)
- 2016 Wolfram Summer School, Waltham, MA, 19 June-8 July, 2016
- Young Researchers Integrability School Durham, United Kingdom 6-10 July, 2015
- Gauge-string duality and its application bilateral project Krakow, Poland 4-24 May, 2015
- Summer School on String Theory and Holography Lisbon/Porto, Portugal 14 26 July, 2014
- Integrability in Low Dimensional Quantum Systems Tihany, Hungary 30 June 4 July 2014
- Finite-size Technology in Low Dimensional Quantum Systems (VII) Budapest, Hungary 16 27, June 2014
- Japanese-Hungarian bilateral exchange project Tokyo, Japan 29 November 16 December 2013
- Wigner 111 Scientific Symposium Budapest, Hungary 11-13 November 2013
- Spring School on Superstring Theory and Related Topics held at ICTP-Trieste, Italy 18-26
 March 2013
- Mathematica School in Theoretical Physics: Advanced Topics in Conformal Field Theory held at ICTP-Trieste, Italy 11-16 March 2013
- Theoretical Physics School on Quantum Gravity University of Szeged, Hungary 27-31 August 2012
- One week course Introduction to Symbolic Computation for Engineers in Universidad Politecnica de Madrid (ATHENS programme 2012)
- One week course On Quanta, Chaos and Daemons in Ecole des Ponts ParisTech (ATHENS programme 2011)
- Mini-Workshop on "Spin and Quantum Transport" Humboldt-Universität, Berlin 25-26 May 2011
- Information Geometry and its Applications III University of Leipzig, Germany 2-6 August 2010

Honours and awards

- 1st place on NYIFFF physics team competition as a member of "TBA..." team in 2013
- 3rd place on Rudolf Ortvay Competition in Physics in 2010
- Bronze Medal at the 38th International Physics Olympiad in Isfahan, Iran in 2007
- Honourable Mention at the 37th International Physics Olympiad in Singapore in 2006

Memberships

- 2013-2017 Member of MTA Lendület Holographic Quantum Field Theory Group
- 2011- Member and for two years president of BME Eugene Wigner College for Advanced Studies
- 2009- Member of Hungarian Nuclear Societies Young Generation Network

Presentations

- Introducing Game Theory on Wolfram Virtual Technology Conference, Virtual Champaign IL. 18 – 21 October 2021
- Finite volume form factors of the defect scaling Lee-Yang model on Integrability in Low Dimensional Quantum Systems Tihany, Hungary 30 June 4 July 2014
- Egzaktul megoldható kvantumtérelméletek on DOFFI Balatonfenyves, Hungary 12-15 June 2014
- Form factors of the defect scaling Lee-Yang model on ELFT Részecskefizikai Szeminárium Budapest, Hungary 9. October 2013
- Participation on a workshop about Communicating with young people on PIME conference in Brussels, Belgium in 2011.