Curriculum vitae

PERSONAL INFORMATION

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SCIENTIFIC INDICATORS (as of 2025.03.04)

Citations: 1751, H-index: 23, i10-index: 39. Publications in refereed journals: 50. Book chapters: 4.

SHORT INTRODUCTION

I am a theoretical chemist with a higher education in both chemistry and physics. During my PhD studies at the Eötvös Loránd University in Budapest, Hungary, I did research in quantum dynamics and theoretical high-resolution molecular rovibrational spectroscopy, which involved method development as well as applications of general interest. As a postdoc, I utilized my knowledge in high-accuracy molecular modeling in the context of strong field science, in the group of Prof. Kaoru Yamanouchi at The University of Tokyo, where I was later hired as an assistant professor. Eventually I decided to give up my tenure position in Tokyo and attempt to establish a scientific career in my home country.

CURRENT POSITION

2017 – Research associate
Institute of Chemistry, ELTE Eötvös Loránd University

PREVIOUS POSITIONS

2016 – 2017 Assistant professor
Department of Chemistry, The University of Tokyo - Yamanouchi Laboratory

2014 – 2016 JSPS postdoctoral fellow
Department of Chemistry, The University of Tokyo - Yamanouchi Laboratory

2012 – 2014 Research assistant
ELTE Institute of Chemistry and MTA-ELTE Complex Chemical Systems Research Group

EDUCATION AND TITLES

2024 Habilitation
ELTE Eötvös Loránd University

2013 PhD in Theoretical Chemistry - *Thesis: Rovibrational spectra near dissociation*
ELTE Eötvös Loránd University, Supervisor: Prof. Attila G. Császár

2013 BSc in Physics
ELTE, Supervisor: Dr. Zoltán Kaufmann

2009 MSc in Chemistry
ELTE, Supervisors: Prof. Attila G. Császár, Dr. Gábor Czakó

SHORT RESEARCH VISITS

2008 Group of Prof. Árpád Somogyi, *University of Arizona, AZ, USA*
Research topic: Determining the products and the kinetic properties of the tholin-water reaction using high resolution mass spectrometry

2006 Group of Prof. Árpád Somogyi, University of Arizona, AZ, USA
Research topic: Automatization of mass spectra analysis

GRANTS AND FELLOWSHIPS

2020 – 2024 FK20 Grant (NKFIH Young Researcher Excellence Program)

2020, 2022 Bolyai+ Young Researcher Fellowship (New National Excellence Program)

2020 – 2023 Bolyai János Research Fellowship (Hungarian Academy of Sciences)

2017 – 2020 PD17 Fellowship (NKFIH Postdoctoral Excellence Program)

2014 – 2016 JSPS Postdoctoral Fellowship (Japan Society for the Promotion of Science)

2014 Erdős Pál Young Researcher Fellowship (National Excellence Program)

2007 – 2008 Scholarship of the Hungarian Republic

PRIZES AND AWARDS

2022 'Promising researcher of Eötvös Loránd University' (ELTE)

2020 Academic Youth Prize (Hungarian Academy of Sciences)

2019 Michael Polányi Award, youth category (Hungarian Academy of Sciences)

2019 'Excellent researcher of the Institute' (Institute of Chemistry, ELTE)

2007 'Excellent student of the Faculty' (Faculty of Sciences, ELTE)

COMMUNITY SERVICE, NETWORKING

2022 – Review Editor, Phys. Chem. and Chem. Phys. (Frontiers in Chemistry and Frontiers in Physics)

2021 – Secretary, AMMB Working Committee of the Hungarian Academy of Sciences

2021 – Reviewer, European Research Council (ERC)

2021 – Reviewer, American Physical Society (APS)

2020-2024 Member, AttoChem network WG2 (COST Action CA18222)

2020 – Member, Reviewer Board (Photonics, MDPI)

2018 – Reviewer, National Research, Development and Innovation Office, Hungary

2018 – Member, public body of the Hungarian Academy of Sciences
(Committee on Physical Chemistry, Section of Chemical Sciences)

ORGANIZATION OF SCIENTIFIC EVENTS

2023. COST Action CA18222 - 4th AttoChem Annual Meeting, Szeged, Hungary.
Role: local organizer

2021 – Meetings of the AMMB Working Committee of the Hungarian Academy of Sciences, Hungary.
Organized six domestic conferences so far.

2018. International Symposium on Ultrafast Intense Laser Science (ISUILS2018), Visegrád, Hungary.
Role: Co-Chair, local organizer

2018. Anharmonicity in Medium-Sized Molecules and Clusters (AMOC2018), Budapest, Hungary.
Role: local organizer

CONFERENCE INVITATIONS

2023. *International Symposium on Quantum Frontiers*, Tokyo, Japan

2022. *Symposium on Recent Development in Atomic, Molecular, and Optical Science*, Tokyo [online]

2022. *XVI. Quantum Reactive Scattering Workshop*, Balatonföldvár, Hungary

2021. *Recent Development in Ultrafast Intense Laser Science*, Tokyo, Japan [online]

2020. *Toruń Astrophysics, theoretical Spectroscopy, and Quantum chemistry (TASQ) Minisymposium*, Toruń, Poland [online]

2020. *Ultrafast processes in atoms, molecules and nano systems: classical and quantum, descriptions UPAMON2020*, Mátrafüred, Hungary [canceled due to COVID19]

2019. *International Symposium on Ultrafast Intense Laser Science*, Kushiro, Japan

2018. *Bridging Experiment and Theory in Precision Spectroscopy COST summer school*, Torun, Poland

2018. *16th Central European Symposium on Theoretical Chemistry*, Srni, Czech Republic

2017. *International Symposium on Ultrafast Intense Laser Science*, Lijiang, China

2017. *MOLIM2017 – Molecules in Motion*, Zürich, Switzerland

2016. *International Symposium on Ultrafast Intense Laser Science*, Cassis, France

2016. *STAR Symposium on Ultrafast Intense Laser Science*, Hayama, Japan

2016. *The Second STEPS Symposium on Photon Science*, Saint Petersburg, Russia

TEACHING ACTIVITIES

2024 – Mathematical modeling in natural sciences (BSc), ELTE, Hungary

2024 – Applied mathematics in chemistry (BSc), ELTE, Hungary

2022 – Physical Chemistry I. practice (BSc), ELTE, Hungary

2021 – Criterion class in Chemistry for biology majors (BSc), ELTE, Hungary

2020 Physical Chemistry Laboratory (BSc), ELTE, Hungary

2017 Advanced quantum chemistry and structural analysis (PhD level), ELTE, Hungary

2016 Laboratory work in physical chemistry (BSc), The University of Tokyo, Japan

2013 Calculations in physical chemistry (BSc), ELTE, Hungary

2010,2011 Mathematical methods in chemistry (MSc), ELTE, Hungary

ADDITIONAL TRAININGS

2019 CANVAS (advanced), ELTE, Hungary

2019 CANVAS (beginner), ELTE, Hungary

2015 Research ethics, The University of Tokyo, Japan

SCIENCE COMMUNICATION

2023 Presenter at Fazekas+ festival (Mihály Fazekas High School)

2022,2024 Presenter at ELTEfest (Eötvös Loránd University)

2022 Presenter at Alchemy Today (Eötvös Loránd University, Institute of Chemistry)

2021 Appearing on the Podcast of the School of Science, ELTE

2021 Interview on the "open day" of the Chemistry Institute of ELTE

2019 Presenter at Turbine Academy

2019 Presenter at FameLab Hungary

2015 Science Dialogue presenter (Hikawa Highshcool, Yamanashi, Japan)

2013 Presenter at AtomCsill (Eötvös Loránd University, Institute of Physics)