Curriculum Vitae

Mátyás Pápai, Ph.D.

Born: 28 September 1984, Debrecen, Hungary. **Family:** married, 1 child.
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Education

- M.Sc. in Chemistry, Eötvös Loránd University, 2008, date of degree: June 2008
- Ph.D. in Theoretical Chemistry, Eötvös Loránd University, date of degree: 19 March 2015 (supervisor: György Vankó, Ph.D.).
- The PhD Supervison Process: Methods and Tools, Technical University of Denmark, date of diploma: 9 May, 2017.

Positions

- **2009–2011**: KFKI Research Institute for Particle and Nuclear Physics, Department of Nuclear Physics, X-ray Spectroscopy Research Group, research assistant
- **2012–2015**: Wigner Research Centre for Particle and Nuclear Physics, Hungarian Academy of Sciences, Department of Materials Science by Nuclear Methods, X-ray Spectroscopy ERC Research Group, research assistant
- **2015−2017**: Technical University of Denmark (DTU), Department of Chemistry, Theoretical, Computational and Femtochemistry Research Group, H.C. Ørsted COFUND (Marie Curie Actions) postdoctoral fellow
- **2018−2020**: Technical University of Denmark, Department of Chemistry, Theoretical, Computational and Femtochemistry Research Group, researcher.
- **2019**: Paternity/parental leave: 15 weeks during July−November 2019.
- **2020**−: Wigner Research Centre for Physics, Department of Materials Science by Nuclear Methods, Femtosccond Spectroscopy and X-ray Spectroscopy Research Group, research fellow.

Prizes and awards

- **2013**: Attila Vértes Young Scientist Award (granted jointly by the Hungarian Chemical Society, the Radiochemical Committee of the Hungarian Academy of Sciences, and the Attila Vértes Foundation)
- **2015**: Géza Györgyi Award (granted by the director of the Institute for Particle and Nuclear Phyiscs of Wigner Research Centre)
- **2015**: H.C. Ørsted COFUND (Marie Skłodowska-Curie Actions) Fellowship of DTU

Research profile

- Excited-state nonadiabatic dynamics: quantum wavepacket dynamics and trajectory-based methods
- Computational spectroscopy of transition metal complexes
- International collaborations on theoretical and experimental ultrafast studies performed at X-ray Free Electrons Lasers (XFELs)

Publications

- Author/co-author of 32 peer-reviewed international scientific publications
- Cumulative impact factor: 164
- From WoS: number of citations: 777, H-index: 14
- Articles in high-impact journals: 2 *Nat. Commun.*, 1 *Chem. Sci*., 1 *Phys. Rev. Lett.*, 4 *J. Phys. Chem. Lett.*
- Articles in special topics: 1 paper in Molecular Engineering for Electrochemical Power Sources – *Molecules* **2016**, 2 papers in Ultrafast Spectroscopy and Diffraction from XUV to X-ray – *J. Chem. Phys.* **2019**, 1 paper in Non-Adiabatic Dynamics – *Comput. Theor. Chem.* **2019**, 1 paper in Theory of Ultrafast X-ray and Electron Phenomena – *Struct. Dyn.* **2021**.

Awarded research grants as PI

- H.C. Ørsted COFUND (Marie Skłodowska-Curie Actions) postdoctoral grant of DTU.
- Postdoctoral research grant awarded by the Hungarian National Research, Development and Innovation Fund.

Reviewing activity

Reviewer for international peer-reviewed scientific journals, e.g., *J. Phys. Chem., Inorg. Chem.*

International relations

Collaboration with experimental and theoretical research groups from DTU Physics (Prof. M. M. Nielsen), DTU Chemistry (Prof. Klaus B. Møller and Prof. Sonia Coriani), Newcastle University (Dr. T. J. Penfold), , and ELI-ALPS (Dr. S. E. Canton).

Teaching experience

- 2007−2008: Eötvös Loránd University, undergraduate general chemistry course for foreign biology students
- 2016–2020: DTU Chemistry, teacher assistant in Physical Chemistry 3 (2 semesters), Applied Computational Chemistry (5 semesters) B.Sc./M.Sc. courses and teacher in Applications of Analytical Chemistry in Inorganic and Physical Chemistry B.Sc. lab course (1 semester)

Supervision of students

- 2016–2019: Co-supervisor of 1 Ph.D.,1 1 M.Sc., and 2 B.Sc. students, DTU Chemistry, (all graduated)

Language skills

- Native language: Hungarian
- Foreign language: English, C1 level
- Foreign language: French, B1 level
- Foreign language: Danish, B2 level