

PERSONAL DETAILS

Name: Bence Kutus
Date and place of birth: 27 October 1990, Kalocsa (Hungary)
Workplace: Department of Analytical and Inorganic Chemistry, University of Szeged
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WORK EXPERIENCE

2022– Research Fellow, Department of Inorganic and Analytical Chemistry, University of Szeged, Szeged, Hungary
2018–2022 Postdoctoral Researcher, Max Planck Institute for Polymer Research, Mainz, Germany
2017–2018 Research Fellow, Department of Inorganic and Analytical Chemistry, University of Szeged, Szeged, Hungary

RESEARCH EXPERIENCE

2018–2022 Member of the ERC Liquid Dynamics Group, Max Planck Institute for Polymer Research
Research topics: ion-pair binding to aromatic macrocycles, ion association for tetraalkylammonium salts, effect of temperature and isotopic composition on the dipolar rotation of water
2010–2018 Member of the Material and Solution Structure Research Group, University of Szeged
Research topics: complex formation with polyhydroxy carboxylates in neutral-to-strongly-alkaline media and in the solid phase, lactonization equilibria and kinetics of aldonic acids
2017 Visiting PhD student; Solution Chemistry Group, University of Regensburg
Research topic: hydration and ion-pairing properties of the citrate ion
2015 Visiting PhD student; Group of Aquatic Chemistry and Thermodynamics of Actinides and Long-lived Fission Products, Karlsruhe Institute of Technology
Research topic: solubility of $\text{Nd}(\text{OH})_3$ in the presence of D-gluconate in hypersaline media

STUDIES

2014–2018 Ph. D. in Chemistry (summa cum laude)
Doctoral School of Chemistry, University of Szeged
Title of the dissertation: Complex formation and lactonization reactions in aqueous solutions containing Ca^{2+} or Nd^{3+} ions and sugar-type ligands
2012–2014 M. Sc. in Chemistry
Department of Inorganic and Analytical Chemistry, University of Szeged
2009–2012 B. Sc. in Chemistry
Department of Inorganic and Analytical Chemistry, University of Szeged

LANGUAGE CERTIFICATES

2022	B2 German language certificate (Goethe)
2017/2018	C1 English language certificate (Origó)
2006	B2 English language certificate (TELC)

TEACHING ACTIVITIES

2017/2018	General Chemistry Laboratory Practice
2016/2017	Synthetic Chemistry Laboratory Practice
2015/2016	Synthetic Chemistry Laboratory Practice
2014/2015	Analytical Chemistry Laboratory Practice

SCIENTIFIC COMPETITIONS

2013	31 st National Conference of Scientific Students' Associations, Division of Chemistry and Chemical Industry, Section of Coordination Chemistry, 2 nd place
2012	Conference of Scientific Students' Associations, Section of Coordination and Environmental Chemistry, 1 st place
2007	Irinyi János National Chemical Competition for Secondary School Students, national competition, 1 st place and Irinyi Award

AWARDS AND SCHOLARSHIPS

2020	Pro Laudanda Promotio Award
2019	Humboldt Research Fellowship for Postdoctoral Researchers, International Conference on Solution Chemistry Youth Forum Award (Xining, China)
2017	Talent Scholarship and Excellence List 'Golden Level', Predoctoral Research Fellowship of the New National Excellence Program
2015	International Alumina Quality Workshop Best Student Paper Prize (Perth, Australia)
2014	Discipuli Pro Universitate Award, Sófi József Award, Talent Scholarship and Excellence List 'Golden Level'
2013	FERROÉP – Pro Talentis Scholarship, Scholarship by the Hungarian Republic, Eötvös Loránd Research Fellowship
2011	Scholarship by the Hungarian Republic

SOCIAL ACTIVITIES AND MEMBERSHIPS

2022–	Member of public body of the Hungarian Academy of Sciences
2014–	Member, Hungarian Chemical Society
2014–2017	Member, National Council of Student Research Societies, Division of Chemistry
2014–2016	Secretary, Foundation for the Members of the Eötvös Loránd Dormitory
2009–2015	Member of the Students' Board, Eötvös Loránd Dormitory, University of Szeged