

Curriculum Vitae: Prof. Gergely Katona

General information

Full name: Gergely Péter Katona Nationality: Hungary/Sweden
Department of Chemistry E-mail: gergely.katona@gu.se
& Molecular Biology
Box 462
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S-405 30 Gothenburg, Sweden

1. Masters degree

1999 Eötvös Loránd University, Budapest, Hungary
Subject: molecular biology

2. PhD degree

2000-2004: Chalmers University of Technology and Uppsala University, Sweden.
PhD subject: macromolecular X-ray crystallography.
Thesis: “*Intermediate State Stabilisation in Enzyme Catalysis*” (supervisor: Richard Neutze).

3. Postdoctoral work

2006-2007: EMBO Long-term fellowship at IBS Grenoble, France, Research area: X-ray crystallography, Raman spectroscopy (lab: Dominique Bourgeois)
2005-2006: CEA postdoctoral researcher at IBS Grenoble, France. (lab: Dominique Bourgeois)
2004-2005: Research Associate at University of Leicester, UK. (lab: Nigel Scrutton)

4. Associate Professor (docent)

2011: University of Gothenburg (reviewer: Sine Larsen).

5. Current position

2018- Professor of Biochemistry, Department of Chemistry and Molecular Biology, University of Gothenburg

6. Previous positions

2017-2018: Senior lecturer, Department of Chemistry and Molecular Biology, University of Gothenburg
2010-2016: Senior researcher, Department of Chemistry and Molecular Biology, University of Gothenburg
2007-2010: Assistant professor, Department of Chemistry, University of Gothenburg

8. Tutoring experience

Main supervisor for student obtaining PhD degree: Atsarina Larasati Anindya (2024), Maja Jensen (2022), Viktor Ahlberg Gagnér (2022), Maria-Jose Bonet Garcia (2019), Rhawnie Carlsson Caing (2018), Ida Lundholm (2015), Annette Duelli (2014) and Weixiao Yuan Wahlgren (2012).

Co-supervised following students obtaining PhD degree: Venkataragavan Chandrasekaran (2024), Eric Malmhäll Bah (2023), Greger Hammarin (2022), Oskar Berntsson (2018), Erik Malmerberg (2011), Linda Johansson (2013), Annemarie Beate Wöhri (2008) and Krisztian Fodor (2006).

Main supervisor for postdocs: Weixiao Yuan Wahlgren (2013, one year)

Co-supervisor for postdocs: Amit Sharma (2016-2018)

9. Other information of relevance to the application

Prizes and Awards

2012 Science Breakthrough of the Year

2009 Swedish Research Council Special Research Position (rådsforskare)

2009 Young Scientist Award of the European Synchrotron Radiation Facility

2008 Medal of the French Academy of Science: «Les Grandes Avancées Françaises en Biologie 2007-2008»

2005 EMBO Long-term Fellowship Award

2000 Eötvös Hungarian State Fellowship

Service for the scientific community

Ad hoc peer reviewer: Journal of American Chemical Society, Journal of Molecular Biology, Journal of Synchrotron Radiation, Biochemistry, FEBS Letters, Energies, Medicinal Chemistry Communications, Scientific Reports, PloS One, Physical Review X, Nature Communications, Physical Chemistry Chemical Physics

Assistant editor: Scientific Reports (2018-2020)

Project review: EMBL Hamburg - Project evaluation committee SAXS, MX and imaging (2019-), iNEXT(-Discovery) - Project evaluator SAXS (2017-2024)

Leadership and Governance Roles: NBIS Board Member (2025-)

10. Intellectual property rights

Patent:

METHOD AND SYSTEM FOR DETERMINING PEPTIDE FITNESS

Application WO-2023211332-A1

Software source code without user interface:

https://github.com/Katona-lab/CFEL_tools

Parser and resampling routines for crystFEL stream files.

https://github.com/Katona-lab/Multivariate_SAD

Software for analysing single wavelength anomalous diffraction data with multivariate Bayesian methods.

https://github.com/Katona-lab/ADP_analysis

Software for evaluating similarity of atomic displacement parameters and estimating the probability of coincidental similarity.

Software with user interface:

https://colab.research.google.com/github/Katona-lab/MST-analysis/blob/main/MST_progress_curve_analysis.ipynb

Interactive analysis tool for microscale thermophoresis progress curves based on Bayesian machine learning.