

Leif A. Eriksson

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Phone: +46 (0)31 786 9117
Date of birth: 1964-12-17
Married, 2 children

**Bibliometric data:**

Total number of peer reviewed papers: 287
Total number of review papers and book chapters: 25
Citation data from Google Scholar (accessed 2020-09-30): Total cit: 8196; h-index: 51; i10-index: 192
ResearcherID (Web of Science): D-1226-2012. ORCID ID: 0000-0001-5654-3109

Higher education: 1986, B.Sc. in Chemistry, Stockholm University.

PhD degree: 1992, Ph.D. in Quantum Chemistry (Uppsala university). Thesis Title: *Computational Quantum Chemistry: Applications to Radical Cations, Polymerisation Reactions, Polymers and Charge Transfer Systems*. Main supervisor: Prof. Sten Lunell.

Postdoctoral fellowship: 1992-07 – 1993-06, Swedish Research Council ('NFR') Postdoctoral Fellow in theoretical chemistry at Dalhousie Univ., Halifax, Canada (Prof. Russell J. Boyd).

Docent: 1995-12, *Docent* in Applied Quantum Chemistry (Stockholm university).

Current employment: Professor, Physical chemistry, University of Gothenburg (UGOT), Sweden (2011-09-01 - onwards). During 2019: 60% research, 20% teaching, 20% commissions of trust.

Previous employments

1993-07 - 1998-06 Researcher (Forskarassistent), Dept of Physics, Stockholm University

1998-07 - 2001-03 Assoc. Prof. (Lektor) in Applied Quantum Chemistry, Dept of Quantum Chemistry, Uppsala University

2001-04 - 2004-01 Assoc. Prof. in Theoretical Biophysics, Dept of Biochemistry/ Dept of Cell- and Molecular biology, Uppsala University

2004-01 - 2006-01 Assoc. Prof. in Biophysical Chemistry, Dept of Natural Sciences, Örebro University

2006-02 - 2009-06 Professor of Biophysical and Theoretical Chemistry at Örebro University

2009-07 - 2011-08 Professor of Biophysical and Theoretical Chemistry at NUI Galway, Ireland

PhD student throughput as main supervisor: Fahmi Himo, Stockholm University, PhD 2000; Jorge Llano, Uppsala University, PhD 2004; Bo Durbeej, Uppsala University, PhD 2004; Johan Raber, Uppsala University, PhD 2007; Klefah Musa, Örebro University, PhD 2009; Edvin Erdtman, Örebro University, 2010; Emma S.E. Eriksson, NUI Galway, Ireland, PhD 2011; Bo-Xue Tian, NUI Galway, Ireland, PhD 2012; Li Gao, Örebro University/KTH, PhD 2012; Chunxia Gao, UGOT Sweden, PhD 2016; Min Wu, UGOT, PhD 2017; Antonio Carlesso, UGOT, (PhD planned Jan 2020); Fredrik Lannestam Holmelin, UGOT (PhD planned June 2024). Main supervisor for 8 Licentiate degrees (Swedish 'half PhD' degree). Assistant/co-supervisor for 9 PhD degrees.

Postdoc supervision: In total 20 postdocs work/have worked in my research group.

James W. Gauld (Australia) 1997-1999; Christer Enkvist (Sweden) 1998; Yan ni Wang (China) 1999-2001; Jian Wang (China) 2002; Chuan bao Zhu (China) 2002-2004; Xiao yi Li (China) 2003-2005; Rita C. Guedes (Portugal) 2003-2004; Daniel J.V.A. dos Santos (Portugal) 2004-2005; Ru bo Zhang (China) 2004-2005; Sofia S.M.C. Godinho (Portugal) 2005; Jon M. Matxain (Spain) 2005-2006; Patricia Saenz-Mendez (Uruguay) 2007; David Edvardsson (Sweden) 2007; Salama Legsal (Spain) 2008-2009; Dragan Adamovic (Sweden) 2008-2010; Klefah Musa (Libya) 2010-2011; Emma S.E. Eriksson (Sweden) 2012-2014; Samuel Genheden (Sweden) 2015-2018; Anna Reymer (Sweden) 2016-2018; Chunxia Gao (China) 2017-2018; Mélissa Thomas

(France) 2020-2022; Jalil Mahdizadeh (Iran) 2020-2022; Kevin Moreau (France) 2020-2022; Antonio Carlesso (Italy) 2020.

Current research group: 1 researcher, 4 postdocs, 2 PhD students, 4 Master students.

Other information:

Member of thesis committee at 21 PhD dissertations. External examiner of 13 PhD theses and 3 Licentiates.

Have participated in >70 Intl conferences and symposia, with posters or lectures. Invited/ plenary speaker in 35 of these. Some 50 lectures at different universities and research institutes. Have co-organized 8 international workshops/symposia, and initiated 2 international conference series.

12 papers with >100 citations. 3 patents approved and 2 more being developed. Editor for a book in theoretical biochemistry (Elsevier, 2001). Referee for all major theoretical/physical/bio-chemistry journals. Associate Editor of Int J Quantum Chem 1998-2002. Proceedings Editor (IJQC) for 7 international conferences.

Research grants from the Swedish Research Council (NFR/VR) for work in theoretical chemistry / biophysical chemistry since 1992. Other recently approved grants include several Horizon2020 applications (MSCA-ITN "TRAIN-ERS"; MSCA-RISE "EPIC", MSCA/VGR-funding "MoRE"; MSCA-IF/Vinnova Seal of Excellence "CAtHeDRA"; MSCA-RISE "VIDEC"). Total research grants of the order 3 MSEK per year. Total amount of external grants ca 50 MSEK. Grants of computer time at national supercomputing facilities 1994 onw.

Member of the interdisciplinary research center UGOT Center of Antibiotics Resistance Research (UGOT CARE), 2016-onw.

One of the initiators to, and the first Chair (2006-2007) of Örebro Life Science Center, Örebro Univ. Initiator to, and Chair (2006-2009; 2012) of Section for Theoretical Chemistry of the Swedish Chemical Society. Nominated to the Göran Gustafsson award in chemistry 2007.

Co-founder of spin-off companies C26 Bioscience and Cell Stress Discoveries.

Teaching at undergraduate and PhD student levels since 1989. Have developed new PhD courses on Density functional theory and Molecular photochemistry, and new undergraduate courses on Chemical structure and bonding, Maths for chemists and Biochemical modelling. Current teaching includes Thermochemistry and Atomic theory and chemical bonding at 1st year undergraduate courses for chemists and pharmacists, Molecular Modelling (3rd year chemistry students and Master students), and various lectures in drug design and bioinformatics. Awarded the Science student union at UGOT Pedagogic Price 2017.

Commissions of trust (selection):

- Chemistry Chair, Department of natural sciences, Örebro university 2005, 2007-2008;
- Member of Faculty board and the Employment committee, Faculty of Science and Technology, ÖU, 2007-2008;
- Member of Departmental committee for 3rd cycle education, Chemistry and Molecular Biology, UGOT, 2012-2015;
- Member of UGOT Council for investigation of suspected scientific misconduct 2013 – Sept 2018 (vice chair from July 2017);
- Evaluator of grant applications for Swedish Science Research Council 2013, 2015, 2017;
- Evaluator of research grants for the Finnish Academy 2017-2018;
- Vice Head of Department, research, Chemistry and Molecular Biology, UGOT, Sept 2018 onwards.
- Editorial Board Member, Scientific Reports (Nature publishing) since June 2019.

Main research field: Theoretical biochemistry/biophysics, with special focus on different aspects of signalling pathways in Cancer, Protein modelling and Drug design. Research is based on high level quantum chemistry, density functional theory, molecular dynamics, multiscale modelling, homology modelling, pharmacophores and docking based on large databases.