

1. Contact Information

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2. Education

1986 Master of Science in Pharmacy.
1992 PhD exam in Analytical Pharmaceutical Chemistry with the thesis "Distortions of Analyte Peaks due to Large System Peaks in ion-pair Adsorption Chromatograph" (supervisor: Prof. Douglas Westerlund).
1993, 1996 Postdoctoral fellow

3. Academic Promotions

1997 Promoted to Associate Professor (docent) at Uppsala University.
2007 Promoted to Professor in Analytical Biotechnology at Uppsala University.
2010 Full Professor in Analytical Chemistry at Karlstad University.

4. Academic Promotions

1994 Laboratory manager at MPA (Läkemedelsverket).
1995 - 2000 Lectureship (lektor) in Analytical Pharmaceutical Chemistry, Uppsala University.
2000 - 2008 Lectureship and Director of courses (studierektor) at the Department of Surface Biotechnology, Uppsala University
2009 – 2010 Lectureship in Analytical Biotechnology at the department of Physical and Analytical Chemistry.
2010- Employed as permanent Professor in Analytical Chemistry at Karlstad University.

5. Supervision of PhD Theses and Licentiate Theses

- I. PhD exam year 2000, Gustaf Götmar: *Heterogeneous Surfaces in Chiral Chromatography*
- II. PhD exam year 2004, Johan Lindholm: *Development and Validation of HPLC methods for Analytical and Preparative Purposes*¹
- III. PhD exam year 2005, Patrik Forssén: *Adsorption Isotherm Parameter Estimation in Non-linear Liquid Chromatography*²
- IV. PhD exam year 2007, Robert Arnell: *Development and Validation of methods for Characterization of Multi-component systems in Preparative LC*³
- V. PhD exam year 2008, Jörgen Samuelsson: *Development of Methods for Phase System Characterization in Liquid Chromatography*⁴
- VI. Licentiate Exam 2010, Lena Edström: *Fundamental Studies on Peak Shapes in Liquid Chromatography*

¹ Johan's thesis was awarded the 1st Phabian Award 2005 (The Pharmaceutical and Bioanalytical award, sponsored by AstraZeneca) for the best doctoral thesis of the year.

² Bertil Gustafsson at the Department of Scientific Computing was the main supervisor I was deputy supervisor; however, Patrik worked in our team with our research focus.

³ Robert's thesis was awarded a shared 2nd position Phabian Award 2007 for the best doctoral thesis of the year.

⁴ Jörgens's thesis was awarded a shared 2nd position Phabian Award 2008 for the best doctoral thesis of the year.

- VII. Licentiate Exam 2011, Torgny Undin (VR-ID PhD student): *Development and improvement of methods for characterization of HPLC stationary phases*
- VIII. PhD Exam 2014, Lena Edström: *Adsorption Studies with Liquid Chromatography: Experimental Preparations for Thorough Determination of Adsorption Data*⁵
- IX. PhD Exam 2015, Martin Enmark: Fundamental Investigations of Supercritical Fluid Chromatography (Main Supervisor).
- X. PhD Student in progress, Dennis Åsberg: The project is in cooperation with Anders Karlsson, Director PD CVMD and OCR, Pharm Dev in AstraZeneca R&D in Gothenburg.
- XI. Licentiate Student in progress, Emelie Glenne: The project is in cooperation with Magnus Klarquist, RIA iMed at AstraZeneca R&D in Gothenburg.

9. Networks in academia and industry

Industry: The Fundamental Separation Science Group at Karlstad University (KAU-FSSG) has many ongoing/successfully reported joint Projects together with Swedish industry through Swedish Knowledge Foundation (www.kks.se). In two ongoing projects from The Knowledge Foundation (KK stiftelsen) grant we cooperate with AstraZeneca R&D Mölndal, Waters Sverige AB and Attana AB. Other companies we cooperate with closely are Akzo Nobel Pulp and Performance Chemicals AB and Cambrex Karlskoga AB. We have during the last 3 years published several scientific articles in cooperation with our industrial partners.

Academic network: During the last 3 years we have closely cooperated and co-written scientific papers together with leading international researchers in the field such as Prof. Shalliker (Univ. of Western Sydney, Australia), Prof. Riekkola (Univ. of Helsinki, Finland), and Prof. Kaczmarek (Technical Univ. of Rzeszow, Poland). We have also cooperated with internationally well-known researchers such as Prof. Andreas Seidel-Morgenstern (Max Planck Institute, Magdeburg, Germany), Assoc. Prof. Alberto Cavazzini (University of Ferrara, Ferrara, Italy) and Prof. Attila Felinger (University of Pécs, Hungary). It should be mentioned that a formal cooperation agreement was recently signed with Professor Kaczmarek (Technical Univ. of Rzeszow, Poland) Karlstad University as well as with Prof. Märten Gullikson at Örebro University.

10. Other information of Relevance to the application

- I am reviewing around 10-15 articles a year for the two most highly rated separation journals, “Analytical Chemistry” and “Journal of Chromatography” and occasionally also for the journals “Chirality”, “Computers & Chemical Engineering” and “Journal of Separation science (JSS)”.
- I have been in the committee for licentiate and PhD dissertations + opponent together around 3 times a year for the past 8 years at Uppsala University, Lund Technological University, Karlstad University Chemistry departments, Kalmar University, University of Western Sydney etc. The most recent opponent duties are:
 - Petter Olsson “Essential Lipids – Analytical methods for the characterization of lipid materials, Thesis, Stockholm University 2015 ISBN 978-91-7649-077-8.
 - Mark Trudgett “Towards Comprehensive Online Multidimensional Frequency Transform Separations (COMForTS), University of Western Sydney, April 2014.
- Expert evaluator in various academically situations most recently for :

⁵ My PhD student Lena Edström did her disputation in Uppsala University with Jonas Berquist as formal supervisor since I by then had left to Karlstad but I was the scientific supervisor for all papers in the thesis.

- The promotion of Erland Björklund to professor in analytical chemistry at högskolan i Kristianstad, den 22 august 2014.
- The promotion of Conny Östman to professor in analytical chemistry at Stockholms University, den 28 November 2014.
- Member of various boards at congresses, best poster, best young scientist at the HPLC meetings, since 2005.
- Member of the VR NT-D4 panel for 2011. Of NT-17 2013 and 2014.
- Contracted Expert Evaluator for The National Science Centre seated in Kraków, since 2014.
- According to Google Scholar (10 June 2015) my h-index was 27; number of citations 1928 and citations per item ~ 23.
- I have been an examiner / coordinator for more than 200 Master Degree Projects / Research Training Projects in the Molecular Biotechnology Engineering Program since 2000. See the list of students until 2004 at www.ibg.uu.se.
- I have developed and taught a supervisor course for engineering programs teachers involved in project courses at Uppsala University.
- I was an expert advisor at Karlstad University concerning their proposal for “Examensrätt för Receptarier” 2002.
- I have created a project communication course together with the biotech industry in Sweden and a communication consult (Leif Andersson). Our approach has gained GREAT attention: for example see <http://www.unt.se/ekonomi/studenter-tranas-infor-yrkeslivet-736160.aspx> or just google on “kaospedagogik”.
- I was an expert reviewer for 18 candidates for the position of Professor in Analytical Chemistry, at Orebro Univeristy 2015 (ORU 2.2.1-4144/2014).