

JOHAN MARKLUND
LUND 2015-06-03

CURRICULUM VITAE



PERSONAL INFORMATION

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| Full Name: | Marklund, Kjell <u>Johan</u> Peter |
| E-Mail: | johan.marklund@iml.lth.se |
| Date of Birth: | October 1, 1969 |
| Citizenship: | Swedish |
| Family: | Wife and three children |

CURRENT POSITION (JAN 2013 TO PRESENT)

Professor of Production Management
ETP (Excellent Teaching Professional)
Associate Head of Department, Industrial Management and Logistics
Chair, division of Production Management
Lund University, Faculty of Engineering
P.O. Box 118
SE-22100 Lund
Sweden

EDUCATION (after high school and military service)

Ph.D. Eng. in Production Management, Lund University, Faculty of Engineering, completed December 17th, 1999.

Dissertation title: SUPPLY CHAIN INVENTORY CONTROL - Methods for Coordination and Evaluation.
Advisor: Professor Sven Axsäter
Examination Board: Professor Henrik Edwards, Lund University, Associate Professor Mikael Patriksson, Chalmers Institute of Technology, Professor Anders Thorstenson, Dept. of Management Science and Logistics, Aarhus School of Business.
Faculty opponent: Professor Stephen C. Graves, Massachusetts Institute of Technology, USA.

Licentiate in Engineering in Production Management, Lund University, Faculty of Engineering, 1997.

Thesis Title: Coordinated Control of Multi-Stage Inventory Systems
Advisor: Professor Sven Axsäter
Opponent: Associate Professor Sören Glud Johansen, Dept. of Operations Research, University of Aarhus

Bachelor of Science in Business Administration, Lund University, Lund 1997.

Thesis title: Balanced Scorecard - från idé till färdig modell. En studie av införandeprocessen hos tre sydsvenska företag, (in Swedish) (Co-authors: A. Boke, P. Gunnarsson, F. Nilsson)

Master of Science in Industrial Engineering and Management, Linköping Institute of Technology 1994.
(The academic year 1992/1993 was spent at the Department of Industrial Engineering at the University of Massachusetts in Amherst thanks to an awarded scholarship. References: Professor Anna Nagurney, School of Management, University of Massachusetts at Amherst)

Thesis title: A Study of Lagrangian Heuristics for Convex Network Flow Problems
Advisor: Associate Professor Torbjörn Larsson, Dept. of Mathematics, Linköping Institute of Technology

PREVIOUS POSITIONS

Lund University, Faculty of Engineering
Department of Industrial Management and Logistics
P.O. Box 118, SE-22100 Lund, Sweden

Professor of Production Management
ETP (Excellent Teaching Professional)
Head of Department, Industrial Management and Logistics
Chair, division of Production Management
4/11 2011 – 31/12 2012

Lund University, Faculty of Engineering
Department of Industrial Management and Logistics
P.O. Box 118, SE-22100 Lund, Sweden

Associate Professor of Production Management
ETP (Excellent Teaching Professional)
Head of Department, Industrial Management and Logistics
Chair, division of Production Management
1/1 2010 – 3/11 2011

Lund University, Faculty of Engineering
Department of Industrial Management and Logistics
P.O. Box 118, SE-22100 Lund, Sweden

Associate Professor of Production Management,
chair, the division of Production Management
14/9 2007 – 31/12 2009

Lund University, Faculty of Engineering
Department of Industrial Management and Logistics
P.O. Box 118, SE-22100 Lund, Sweden

Assistant Professor of Production Management, chair
of the division of Production Management 1/1 2007 -
13/9 2007

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|--|---|
| Lund University, Faculty of Engineering Department of Industrial Management and Logistics P.O. Box 118, SE-22100 Lund, Sweden | Assistant Professor of Production Management 1/4 2005 – 31/12 2006 |
| Leeds School of Business University of Colorado at Boulder 419 UCB Boulder, Colorado 80309-0419, USA | Assistant Professor of Operations Management 1/8 2001 – 31/3 2005 |
| The Boston Consulting Group AB Skeppsbron 38 SE-111 30 Stockholm SWEDEN | Consultant 14/8 2000 – 1/8 2001 |
| Lund University, Faculty of Engineering, Division of Production Management | Assistant Professor 1/1-30/6 2000 |
| Lund University, Faculty of Engineering, Division of Production Management | Ph.D. student and lecturer 1994-1999 |
| Linköping Institute of Technology, Department of Mathematics | Part time teacher on and off between 1991 and 1994. |
| The Swedish Army | Compulsory military service as a medic, 1988/1989, rank of sergeant. |

TEACHING

Teaching experience

I have been teaching/lecturing in various courses at Lund University, Faculty of Engineering, at Leeds School of Business, and at Linköping Institute of Technology. I have been the supervisor and examiner of numerous Master's theses projects in Production Management at Lund University (>100). I have previously been the assistant advisor for four PhD students, three which have graduated with doctoral degrees (Peter Berling, 2003-2005, and Fredrik Olsson, 2003-2007, Johan Lundin 2006-2011), and one with a licentiate degree (Stefan Vidgren, 2003-2005). I have been the main supervisor for one PhD student graduating with a doctoral degree (Christian Howard 2013, he completed his licentiate degree in 2010). I am currently the main supervisor for two PhD students (Olle Stenius, started Nov 2008 and Lina Johansson started, 2010). I am also an assistant supervisor for one other PhD student (Patrik Tydesjö.). Patrik Tydesjö completed his licentiate degree in June 2008. I have also hosted two visiting PhD students from Eindhoven Technical University (2009 and 2010). This collaboration has rendered two joint papers to be included in their doctoral theses. Thus I have experience in supervising Swedish and International PhD students at all stages of their education.

Courses held

Linköping Institute of Technology (1991-1994)

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| <i>Introductory Course in Mathematics (I)</i> * | <i>1 class</i> |
| <i>Introductory Course in Mathematics (M)</i> * | <i>1 class</i> |
| <i>Introduction to Operations Research (Y)</i> * | <i>1 class, 4,5 ECTS</i> |
| <i>Introduction to Operations Research (M)</i> * | <i>1 class, 4,5 ECTS</i> |

Lund University, Faculty of Engineering (1994-2000)

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| <i>Managerial Economics, basic course</i> * | <i>3 classes, 6 ECTS</i> |
| <i>Managerial Economics, advanced course</i> | <i>3 classes, 6 ECTS</i> |
| <i>Production and Inventory Control</i> | <i>4 classes, 4,5 ECTS</i> |
| <i>Operations Research, basic course</i> ** | <i>3 classes, 6 ECTS</i> |

*In class teaching of 15-30 students, lecturing and providing individual help with exercises.

Leeds School of Business, University of Colorado at Boulder (2001-2005)

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| <i>Total Quality Management</i> ** | <i>4 classes, 3 credits</i> |
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(MGMT 3020- undergraduate course)

Total Quality Management ** 2 classes, 3 credits
(SYST 3030- undergraduate course)

Business Process Design ** 4 classes, 3 credits
(SYST 4060, undergraduate course)

Business Process Design ** 1 class, 3 credits
(MBAX 4060, MBA course)

Simulation Modeling and Analysis ** 1 class, 3 credits
(SYST 7110, PhD course)

** Course responsibility. Courses developed from scratch, including course curriculum, choosing textbooks, producing teaching materials in the form of course compendia, cases, assignments etc. The development of the courses in Business Process Design has led to the writing of the textbook titled "Business Process Modeling, Simulation and Design" (with Manuel Laguna) published by Pearson Prentice Hall, 2004.

Most recent ratings as a professor in course evaluations (FCQs) at Leeds School of Business (highest grade: A, lowest grade: D):

Fall 2003: A (SYST 4060), B (MBAX 6410) and A (SYST 7110)

Fall 2004: B (SYST 4060), B (SYST 3030)

Lund University, Faculty of Engineering (2005 to present)

Quality and Maintenance Management (MIO060) 2 classes, 4.5 ECTS
(Taught the section on statistical analysis, corresponding to about 25% of the course)

Operations Research, basic course (MIO310) ** 2 classes, 6 ECTS

Management of Production and Inventory Systems (MIO331) ** 5 classes, 9 ECTS

Management of Production and Inventory Systems (MION01) ** 5 classes, 7.5 ECTS

Current topics in Innovative Logistics and Supply Chain Management (PhD course) 1 class 7.5 ECTS

Managerial Economics, advanced course (MIO040) 2 classes, 6 ECTS

Quality and Maintenance Management (MION35) 3 classes, 7.5 ECTS

Examples of CEQ (Course Evaluation Questionnaire) summary results for courses at LTH where I have been responsible for the course, and done most of the teaching myself. (Max score 100, Min score -100)

| MIO331 (2008): | | | MION01 (2011) | | |
|-----------------------------|----|------|-----------------------------|----|-------|
| <i>Dissatisfied (<0)</i> | 1 | 8 % | <i>Dissatisfied (<0)</i> | 0 | 8 % |
| <i>Neutral (0)</i> | 3 | 0 % | <i>Neutral (0)</i> | 0 | 0 % |
| <i>Satisfied (>0)</i> | 20 | 92 % | <i>Satisfied (>0)</i> | 12 | 100 % |
| <i>Average score</i> | | +62 | <i>Average score</i> | | +96 |

Produced course compendia

- Kurskompendium i Material och Produktionsstyrning, 1994, , Lund University, Faculty of Engineering. (with S. Axsäter)
- Kurskompendium i Internredovising till Industriell Ekonomi FK, 1996, Lund University, Faculty of Engineering. (with J. Dernroth).
- Course Compendium in Business Process Design 2002, Leeds School of Business, University of Colorado (with M. Laguna)
- Kurskompendium i Kvalitets- och Underhållsstyrning, 2006, Lund University, Faculty of Engineering, (with B. Nilsson).
- Course Compendium: MIO 331 Management of Production and Inventory systems, 2006, Lund University, Faculty of Engineering, (with B. Nilsson)

Produced teaching cases and project assignments

- Ivar bokhylla: Teaching case on using MRP systems. Production and inventory control 1994, 1995, Lund University, Faculty of Engineering, (with H., Nordahl).
- Fantasia AB: Teaching case in Product costing and accounting. Managerial Economics, advanced course, 1996, Lund University, Faculty of Engineering.
- Choice AB: Project assignment on the integrated use of linear programming and simulation. Operations Research, basic course, 1997, Lund University, Faculty of Engineering.
- The Grocery Store: Teaching case in discrete event simulation. Business Process Design, 2002, Leeds School of Business, University of Colorado.
- The Factory: Teaching case in discrete event simulation. Business Process Design, 2002, Leeds School of Business, University of Colorado.
- Simulation project - X-ray: Project assignment. Business Process Design, 2002, Leeds School of Business, University of Colorado.
- Improving operations at County Hospital: Project assignment. Business Process Design, 2002, Leeds School of Business, University of Colorado.
- Banco Popular del Ecuador: Project assignment. Business Process Design (MBAX 6410), 2003, Leeds School of Business, University of Colorado, (with M. Better).
- Simulation Modeling of Inventory Systems in Extend or Arena: Project Assignment. Simulation Modeling and Analysis, 2003, Leeds School of Business, University of Colorado.
- BetaKravall: Project assignment in discrete event simulation. Operations Research , basic course, 2006, Lund University, Faculty of Engineering, (with S. Vidgren).
- Modeling and Analysis of Pull Production Systems at CoinFab: Project assignment in Management of Production and Inventory Systems, 2006, Lund University, Faculty of Engineering.
- Modeling and Analysis of (R,Q) systems at SPI Inc.: Project assignment in Management of Production and Inventory Systems, 2006, Lund University, Faculty of Engineering.
- Modeling and Analysis of Demand Data and Divergent Multi-echelon systems at SPI Inc.: Project assignment in Management of Production and Inventory Systems, 2006, Lund University, Faculty of Engineering.
- The LeedSim Factory: Project Assignment in discrete event simulation. Operations Research, basic course, 2007, Lund University, Faculty of Engineering.
- The Supermarket: Teaching case/computer lab exercise series. Operations Research, basic course, 2009, Lund University, Faculty of Engineering, (with F. Olsson).
- Consultancy Case - Coordinated multi-stage inventory control at Tetra Pak TS. Management of Production and Inventory Systems, 2011, Lund University, Faculty of Engineering.

Pedagogical training

Apart from the teaching experience described above, I have received additional pedagogical training by participating in the courses below. In April 2010 I was admitted into the pedagogical academy at Lund University, Faculty of Engineering, and promoted to *Excellent Teaching Professional (ETP)*, which is the highest competence level you can acquire as a teacher at Lund University. Further information about the ETP requirements and the pedagogical academy is available at (<http://www.lth.se/genombrottet>):

Pedagogical introduction

Lund University 1995

Advanced training for consultants in presentation technique

The Boston Consulting Group, Stockholm, Spring 2001

- *3x8 hours, in groups of 8 people*
- *Videotaping, consultation individually and in group*

*Instructor:
Jens Welin, Sandberg-Media*

Performance in a Nutshell

- *Core course in the University of Colorado Faculty Teaching Excellence Program*
- *Presentation technique*
- *2x4 hours, in groups of 10 people*
- *Video taping, consultation*

University of Colorado, Faculty Teaching Excellence Program (FTEP), Spring 2002

*Instructor:
Lee Potts, Emeritus Professor of Theatre*

The Faculty Teaching Excellence Program Video

University of Colorado, Faculty Teaching

consultation

- Video taping of a regular class with a FTEP Associate (a tenured faculty member recognized for outstanding classroom teaching) attending the class
- At the end of the lecture the FTEP Associate administers a detailed course evaluation
- Individual consultation with the FTEP Associate based on the video, observations by the FTEP Associate and the results from the course evaluation

Excellence Program, Fall 2003

FTEP Associate: Professor John Gibert

Faculty Teaching Excellence Program (FTEP) lunch meetings for new faculty

- 8 one hour sessions per year
- Invited speakers, discussions focused on teaching related issues

University of Colorado, Leeds School of Business 2001-2004.

Instructor: Professor Ramiro Montealegre 2001-2002 and 2003-2004
Professor Donald Lichtenstein 2002-2003

Education for research advisors at LTH (LTHs behörighetsgivande utbildning för forskarhandledare)

Lund University, Faculty of Engineering 2005

Education for Associate professors at Lund University (Docentkurs, Lunds Universitet)

Lund University, Faculty of Engineering 2005

The good lecture (Den goda föreläsningen)

Lund University, Faculty of Engineering, 2009

The good exercise (Den goda övningen/laborationen – studentaktiva undervisningsformer)

Lund University, Faculty of Engineering, 2009

Workshop – The teaching portfolio (Workshop – Den pedagogiska portföljen)

Lund University, Faculty of Engineering, 2009

Information about the CU FTEP is available at <http://www.colorado.edu/ftep>. Information about pedagogical training courses at Lund University, Faculty of Engineering is available at <http://www.lth.se/genombrottet>.

Conference presentations on teaching related subjects

- The annual seminar on education at the division of production management, Båstad 2007: Title of presentation: *Course development and new forms of examination in MIO 331 Management of production and inventory systems*
- LTHs 5:e Pedagogiska Inspirationskonferens 2008 (The 5th Pedagogical inspiration conference, LTH 2008). Title of presentation: *Learning in logistics and operations management using computer based simulation.*
- Den 2:a Utvecklingskonferensen för Sveriges ingenjörsutbildningar, LTH 2009. Title of round table presentation (with F. Olsson): *A small joke may go a long way*
- Den 2:a Utvecklingskonferensen för Sveriges ingenjörsutbildningar, LTH 2009. Title of roundtable presentation: *Nya datorlaborationer i händelsestyrd simulering – ökad förståelse för modellering av industriella problem?* (

Publications on teaching related subjects

[TP1] *Learning in logistics and operations management using computer based simulation*, (with J. Lundin), *Proceedings of the 5th Pedagogical inspiration conference LTH 2008.*

[TP2] *A small joke may go a long way*, *Proceedings Den 2:a Utvecklingskonferensen för Sveriges ingenjörsutbildningar, LTH 2009*

[TP3] *Nya datorlaborationer i händelsestyrd simulering – ökad förståelse för modellering av industriella problem?* (with F. Olsson), *Proceedings Den 2:a Utvecklingskonferensen för Sveriges ingenjörsutbildningar, LTH 2009*

[TP4] *Kursen Management of production and inventory systems – Reflektion och tankar kring högt omdöme på CEQ-skalan Allmänna färdigheter, Lärande i LTH, Blad 18, June 2012.*

Other teaching related activities

- Faculty opponent/discussant for the licentiate thesis of Martin Kylinger, Linköping University, 2014
- Member of the examination board for the doctoral dissertation of Harmen W. Bouma, University of Groningen, 2013.
- Member of the examination board for the doctoral dissertation of Marcel Ndengo Rugengamanzi, Department of Mathematics, Division of Optimization, Linköping University, 2013.
- Member of the examination board for the doctoral dissertation of Nils-Hassan Quttineh, Department of Mathematics, Division of Optimization, Linköping University, 2012.
- Member of the examination board for the doctoral dissertation of Gönül Karaarslan, Beta Research School for Operations and Logistics, Eindhoven University of Technology, 2012.
- Member of the examination board for the doctoral dissertation of Jan-Arne Pettersen, Industrial Logistics, Department of Business Administration and Social Sciences, Luleå Technical University, 2010.
- Expert reviewer of applicants for two positions as senior lecturer (assistant professor with tenure) at Linköping University, September 2009. (Research and Teaching activities of equal importance)
- Member of thesis proposal committee for PhD student Bisheng Du, Aarhus University, Aarhus School of Business September 2009.
- Member of the program committee for the Industrial Engineering and Management program (M.Sc.) at Lund University. (2005-2008).
- Invited guest speaker at Aarhus School of Business, May 2000. Lecturing in a Supply Chain Management course.
- Lecturer in a course in production and materials planning for Silf (The Swedish purchasing and logistics association), 1994.

RESEARCH

My research to date has been focused on developing models for operational decision making in the fields of logistics, production and inventory management, in particular control methods for supply chain (multi-echelon) inventory systems with stochastic demand. The current focus of my research is on design, control and evaluation of sustainable supply chains particularly from the perspective of inventory and freight transportation issues. The largest ongoing research project, where I am involved as a researcher and project leader, is a joint project with Aarhus University, Aalto University and NHH funded by NordForsk (2010-2014)

The outcome of my research to date is reported in the scientific papers, the Licentiate Thesis and the Doctoral Thesis referred to under Publications below. In addition, I regularly present my work at international conferences, examples of talks include:

- The ISIR (International Society for Inventory Research) Summer School 1995 in Portorosch, Slovenia. Title of presentation: *Decentralized Control of Multi-Echelon Inventory Systems*.
- The ISIR 9th International Symposium in Budapest 1996. Title of presentation: *Decentralized Multi-Echelon Inventory Control*.
- INFORMS (Institute for Operations Research and the Management Sciences) National Spring Meeting in San Diego 1997. Title of presentation: *Decomposition of a Multi-Echelon Inventory System*.
- The ISIR 10th International Symposium in Budapest 1998. Title of presentation: *Centralized Inventory Control in a Two-Level Distribution System with Poisson Demand*.
- International Workshop on Inventory Modeling, Lund University, 1998. Title of presentation: *Heuristic Methods for Centralized Control of Multi-Echelon Inventory Systems*.
- INFORMS National Spring Meeting in Cincinnati 1999. Title of presentation: *Heuristic Methods for Centralized Control of Arborescent Multi-Echelon Inventory Systems*.
- EURO/INFORMS Meeting in Istanbul 2003. Title of the invited presentation: *Controlling Inventories in Divergent Supply Chains with Advance-Order Information*.
- INFORMS National Meeting in Atlanta 2003. Title of the invited presentation: *Optimal "Position Based" Warehouse Ordering in Divergent Two-Echelon Inventory Systems*.
- MSOM annual meeting in Eindhoven. Title of presentation: *Optimal "Position Based" Warehouse Ordering in Divergent Two-Echelon Inventory Systems* (a modified version of the INFORMS presentation above, based on a revised version of the underlying paper)

- INFORMS annual Meeting in Denver 2004. Title of the presentation: *Reservation Policies for Improved Inventory Control in Divergent Supply Chains with Advance Demand Information.*
- The ISIR 14th International Symposium in Budapest 2006. Title of presentation: *Asymptotically Optimal Supply Chain Stock Allocation.*
- The EURO conference 2007 in Prague. Title of the invited presentation: *Inventory Control in Divergent Supply Chains with Time Based Dispatching and Shipment Consolidation.*
- INFORMS National Meeting in Seattle 2007. Title of the invited presentation: *Inventory Control in Divergent Supply Chains with Shipment Consolidation.*
- INFORMS National meeting in San Diego 2009. Title of the invited presentation: *A distribution inventory model with transshipments from a support warehouse.*
- ISIR 16th International Symposium in Budapest 2010. Title of invited plenary presentation: *A Multi-echelon Inventory Control Model for Implementation in Practice – the case of a global spare parts provider.*
- POMS 25th Annual conference 2014. Invited session organizer. Title of presentation: *Sustainable multi-echelon inventory control with shipment consolidation and non-linear freight costs.*
- ILS 2014 (the 5th international conference on Information Systems, Logistics and Supply Chain Management) held in Beda, The Netherlands Aug. 2014. Title of invited presentation: *Reducing costs and emissions at a spare parts provider using multi-echelon inventory control.*
- INFORMS National meeting in San Fransisco 2014. Title of the invited presentation: *Sustainable Multi-echelon Inventory Control with Shipment Consolidation and Non linear Freight Costs.*

Publications

Theses

- [T1] *SUPPLY CHAIN INVENTORY CONTROL - Methods for Coordination and Evaluation*, Doctoral thesis in Production Management, the Division of Production Management, Lund University 1999.
- [T2] *Coordinated Control of Multi-Stage Inventory Systems*, Licentiate thesis in Production Management, the Division of Production Management, Department of Industrial Engineering, Lund University 1997.
- [T3] *Balanced Scorecard - från idé till färdig modell. En studie av införandeprocessen hos tre sydsvenska företag*, Bachelor's thesis at the Department of Business Administration, Lund University 1997. (in Swedish) (Co-authors: A. Boke, P. Gunnarsson, F. Nilsson)
- [T4] *A Study of Lagrangean Heuristics for Convex Network Flow Problems*, Master's thesis at the Division of Optimization, the Department of Mathematics, Linköping Institute of Technology 1994.

Scientific papers/Journal articles (refereed)

- [S1] *Decentralized Multi-Echelon Inventory Control*, (with S. Axsäter and J. Andersson), *Production and Operations Management*, Vol. 7 (1998) pp. 370-386.
- [S2] *Decentralized Inventory Control in a Two-Level Distribution System*, (with J. Andersson), *European Journal of Operational Research*, 127 (2000) pp.483-506.
- [S3] *Centralized Inventory Control in a Two-Level Distribution System with Poisson Demand*, *Naval Research Logistics*, Vol. 49 (2002) pp. 798-822.
- [S4] *Heuristic Methods for Centralized Control of One-Warehouse N-Retailer Inventory Systems*, (with S. Axsäter and E. A. Silver), *Manufacturing & Service Operations Management*, Vol. 4 (2002) pp.75-97.
- [S5] *Controlling Inventories in Divergent Supply Chains with Advance-Order Information*, *Operations Research*, Vol. 54 (2006) pp. 988-1010.
- [S6] *Heuristic Coordination of Decentralized Inventory Systems Using Induced Backorder Costs*, (with P. Berling), *Production and Operations Management (POM)*, Vol. 15 (2006) pp. 294-310.
- [S7] *Optimal "Position Based" Warehouse Ordering in Divergent Two-Echelon Inventory Systems*, (with S. Axsäter), *Operations Research*, Vol. 56 (2008) pp. 976-991.
- [S8] *Vertical Information Sharing in a Volatile Market*, (with C. He and T. Vossen), *Marketing Science*, Vol. 27 (2008) pp. 513-530.

- [S9] *Convergent Lagrangian heuristics for nonlinear minimum cost network flows*, (with T. Larsson, C. Olsson and M. Patriksson), *European Journal of Operational Research*, Vol. 189 (2008) pp. 324-346.
- [S10] *Inventory Control in Divergent Supply Chains with Time Based Dispatching and Shipment Consolidation*, *Naval Research Logistics*, Vol. 58 (2011) pp. 59–71.
- [S11] *Lower Bounds and Heuristics for Supply Chain Stock Allocation*, (with K. Rosling), *Operations Research*, Vol. 60 (2012) pp. 92-105.
- [S12] *Evaluation of stock allocation policies in a divergent inventory system with shipment consolidation*, (with C. Howard), *European Journal of Operational Research*, Vol. 211 (2011) pp. 298–309.
- [S13] *A distribution inventory model with transshipments from a support warehouse*, (with S. Axsäter, and C. Howard), *IIE Transactions*, Vol. 45:3 (2013) pp. 309-322.
- [S14] *Inventory Control in a Spare Parts Distribution System with Emergency Stocks and Pipeline Information*, (with C. Howard, I. Reijnen, and T. Tan), *Manufacturing & Service Operations Management*, Vol. 17, (2 Spring 2015), pp. 142-156. <http://dx.doi.org/10.1287/msom.2014.0508>
- [S15] *A model for heuristic coordination of real life distribution inventory systems with lumpy demand*, (with P. Berling), 2013, *European Journal of Operational Research*, Vol. 230 (2013), pp. 515-526.
- [S16] *Multi-echelon inventory control: A normal demand model for implementation in practice*, (with P. Berling), *International Journal of Production Research*, Vol. 52 (2014), pp. 3331–3347, DOI: 10.1080/00207543.2013.873555.
- [S17] *Exact Analysis of Divergent Inventory Systems with Time-Based Shipment Consolidation and Compound Poisson Demand*, (with O. Stenius, A.G. Karaarslan and A.G. de Kok), Working paper, Lund University and Eindhoven University, 2014. (under revision for *Operations Research*)
- [S18] *Sustainable Multi-echelon Inventory Control with Shipment Consolidation and Volume Dependent Freight Costs*, (with O. Stenius and S. Axsäter), Working paper, Lund University 2013. *Under revision for MSOM*.
- [S19] *Reducing costs and emissions at a spare parts provider using multi-echelon inventory control*, (with P. Berling), Proceedings to the 5th International Conference on Information Systems, Logistics and Supply Chain Management, Breda, The Netherlands 2014.

Book chapters (refereed)

- [C1] *Decision Sciences* (with S. Axsäter), in Bates, M.J., and M.N. Maack (Eds.) *Encyclopedia of Library and Information Sciences*, 2009 1: 1, pp. 1450-1457.
- [C2] *Design and Control of Sustainable Supply Chains* (with S Axsäter, C. Howard and O. Stenius), in Carlsson, C-M., Emtairah, T., Gammelgaard, B., Vetsregaard-Jensen, A., and Å. Thidell (Eds.) *Rethinking Transport in the Øresund Region – Policies, Strategies and Behaviors*. Lund University, 2012 (ISBN: 978-91-88902-86-3).

Books

- [B1] *Business Process Modeling, Simulation and Design* (with M. Laguna), Pearson Prentice Hall, 2005.
- Peer reviewed textbook suited for undergraduate and lower level graduate courses. The book consists of 11 chapters and a total of 429 pages, not including the instructors manual with solutions to exercises and cases, ready to use simulation models and PowerPoint presentation material.
 - Reprint for Indian subcontinent and Australia 2011.
- [B2] *Business Process Modeling, Simulation and Design 2nd Edition* (with M. Laguna), CRC Press, Taylor & Francis Group, Boca Raton, Florida, USA, 2013.
- Peer reviewed textbook suited for undergraduate and lower level graduate courses. The book consists of 11 chapters and a total of 501 pages, not including the instructor’s manual with solutions to exercises and cases, ready to use simulation models and PowerPoint presentation material.

Articles in national conference proceedings and trade journals

- [P1] *Benefits of Coordinated Control of Multi-Stage Inventory Systems - A Case Study at Volvo Parts AB*, (with J. Andersson, S. Axsäter, C. Howard), Proceedings PLANs Forsknings- och Tillämpningskonferens, Göteborg 2008.
- [P2] *Coordinated Control of Multi-Stage Inventory Systems at Volvo Parts – The use of Quick Response Stocks*, (with S. Axsäter, C. Howard, G. Svensson, and A. Twedmark), Proceedings PLANs Forsknings- och Tillämpningskonferens, Växjö 2009.
- [P3] *A multi-echelon inventory control model for implementation in practice – the case of Tetra Pak Technical Service* (with P. Berling, S. Östborg, and J. Siversson), Proceedings PLANs Forsknings- och Tillämpningskonferens, Skövde 2010.
- [P4] *En flerstegsmodell för lagerkontroll* (with P. Berling, S. Östborg, and J. Siversson), Bättre Produktivitet, 2/2011, pp. 8-11.

Reports

- [R1] *Methods and Models for Coordination and Information Exchange in Supply Chains*, (with S. Axsäter), KFB-Rapport 1998:31.
- [R2] *Methods and Models for Coordination and Information Exchange in Supply Chains II*, (with S. Axsäter and J. Andersson), Slutrapport KFB 1998-01-23.
- [R3] *Evaluation and use of extended information in integrated supply chains*, Final report NGIL project F4A 06-007, NGIL, Lund University Faculty of Engineering, August 2008.
- [R4] *Methods for cost evaluation and control of integrated supply chain systems*, (with S. Axsäter and F. Olsson) Final report research project P2008-0107:1, Jan Wallanders och Tom Hedelius stiftelse samt Tore Browaldhs stiftelse, administrated by Svenska Handelsbanken, November 2010.

Services to the research community and other research related activities

- Member of editorial board as Associate Editor of *OR Spectrum* (2015-...)
- Ad hoc reviewer for various international journals including *Operations Research*, *European Journal of Operational Research*, *Production and Operations Management*, *International Journal of Production Economics*, *IIE Transactions*, *OR-Spectrum*, *Manufacturing and Service Operations Management*, and *Annals of Operations Research*.
- Member of the scientific committee for ILS 2016 (the 6th international conference on Information Systems, Logistics and Supply Chain Management).
- Member of the scientific committee for ILS 2014 (the 5th international conference on Information Systems, Logistics and Supply Chain Management) held in Beda, The Netherlands Aug. 2014.
- Faculty opponent/discussant for the licentiate thesis of Martin Kylinger, Linköping University, 2014
- Member of the examination board for the doctoral dissertation of Harmen W. Bouma, University of Groningen, 2013.
- Member of the examination board for the doctoral dissertation of Marcel Ndengo Rugengamanzi, Department of Mathematics, Division of Optimization, Linköping University, 2013.
- Invited speaker at the ISLA (International Service Logistics Association) Campus in Munich, Sept 2013.
- Member of the examination board for the doctoral dissertation of Nils-Hassan Quttineh, Department of Mathematics, Linköping University, June 2012.
- Invited guest speaker, Eindhoven Technical University, May 2012.
- Member of the examination board for the doctoral dissertation of Gönül Karaarslan, Department of Industrial Engineering and Innovation Sciences, School of Industrial Engineering, Eindhoven Technical University, May 2012.
- Member of the examination board for the doctoral dissertation of Jan-Arne Pettersen, Industrial Logistics, Department of Business Administration and Social Sciences, Luleå Technical University 2010.
- Expert reviewer of applicants for two positions as senior lecturer (assistant professor with tenure) at Linköping University, September 2009. (Research and Teaching activities of equal importance)
- Member of thesis proposal committee for PhD student Bisheng Du, Aarhus University, Aarhus School of Business September 2009.
- Invited guest speaker at Aarhus School of Business, August 2009.

- Invited guest speaker, LCCC seminar series, Department of Automatic Control, Lund University, Faculty of Engineering, April 2009.
- Member of the Program Committee of the Vinnova excellence center NGIL (Next Generation Innovative Logistics) located at Lund University. (2008-).
- Member of the executive committee for the International Society for Inventory Research (ISIR) (2006-).
- Member of the board of directors of the Vinnova excellence center NGIL, (2005-2008).
- Member of the management team of the Vinnova excellence center NGIL, (2006-feb 2009).
- Invited guest speaker, Beta Research School, Eindhoven Technical University, 2007.
- Invited guest speaker, School of Technology and Design, Växjö University, 2005.
- Invited guest speaker at the Department of Mathematics, University of Colorado at Denver 2004.
- Member of the local organizing committee and chair of contributed sessions, INFORMS National meeting in Denver 2004. (One of the largest conferences in the field of Operations Research and Management Science, in 2004 it had more than 3000 participants and about 50 parallel sessions, today it is almost twice as big)
- Invited guest speaker at Aarhus School of Business, May 2000.
- Organizer of an international workshop on inventory modeling, Lund University 1998.

LEADERSHIP EXPERIENCE AND TRAINING

My professional academic leadership experience primarily stems from positions as division chair, deputy department head, and department head at Lund University, Faculty of Engineering, as project leader for several research projects, as member of the board, and the management team of the VinnExcellence center NGIL (Next Generation Innovative Logistics) located at Lund University, Faculty of Engineering (for information see www.ngil.se), as member of the program committee for the Industrial Engineering program at Lund University, Faculty of Engineering, and as member of the executive committee for the International Society for Inventory Research. Specification of these positions and assignments are (note that some of this information also is given elsewhere in this CV):

- Head of department, Industrial Management and Logistics, Lund University (Jan 2010 – Dec 2012)
- Deputy head of dept, Industrial Management and Logistics, Lund University (Jan 2007 – Dec 2009)
- Division chair, Production Management, (Jan 2007 – to present)
- Project leader (Sept 2010 – 2014), research project NordForsk # 25900 “Management, design and evaluation of sustainable freight and logistics systems” (with Aarhus Business School, the Norwegian School of Economics, Helsinki School of Economics, *collaboration with industry*, *Tetra Pak*, *Bring-Frigoscandia*, *Lantmännen*, *Synchron*)
- Project leader, (with P. Berling and D. Martinsson) (2009-2011), research project, Research Grant: NGIL F4A 08/012 “Multi-echelon inventory control at Tetra Pak Parts”, (*collaboration with industry*, *Tetra Pak*, *Synchron*).
- Project leader (2008 – 2012), research project NGIL F4A 08/009 “Coordinated Inventory Control at Volvo Parts” (*collaboration with industry*, *Volvo Parts*, *MECA*)
- Project leader (2008 – 2010), research project P2008-0107:1, Jan Wallanders och Tom Hedelius stiftelse samt Tore Browaldhs stiftelse, administrated by Svenska Handelsbanken, “Methods for cost evaluation and control of integrated supply chain systems”.
- Project leader (2008 – 2011), research project NGIL F4A 08/007 “Design and Control of Sustainable Supply Chain” Project leader 2008-2011 (*collaboration with industry*, *Synchron*, *UBQ*, *Bring-Frigoscandia*, *Sony Ericsson*).
- Project leader (2006 – 2008), research project NGIL F4A 06-007 “Evaluation and use of extended information in integrated supply chains” (*collaboration with industry*, *Volvo Parts*, *Lindab*).
- Member of the executive committee for the International Society for Inventory Research (ISIR) (2006-).
- Member of the board of directors of the Vinnova excellence center Next Generation Innovative Logistics (NGIL) located at Lund University. (2005-2008).
- Member of the management team of the Vinnova excellence center NGIL (2006-feb 2009).
- Member of the program committee for the Industrial Engineering and Management program (M.Sc.) at Lund University. (2005-2008).

Apart from leadership elements in several pedagogical courses, in my military service, and in my basic education in Industrial Engineering and Management, I have completed *the leadership training course for department heads at Lund University 2010*. The course stretches over 10 months and corresponds to a several weeks of full time work.

OTHER PROFESSIONAL ACTIVITIES

Management Consulting

I have experience from working on a number of strategy cases at the Stockholm office of *The Boston Consulting Group (BCG)*, most of them IT and E-commerce related. The industries that I have worked in include airline, financial services, and telecom.

AWARDS AND GRANTS

- Research Grant: NordForsk # 25900 “Management, design and evaluation of sustainable freight and logistics systems” (with Aarhus Business School, the Norwegian School of Economics, Aalto University), Sept 2010-Aug 2015. (*collaboration with industry, Tetra Pak, Bring-Frigoscandia, Lantmännen, Synchron*).
- Research Grant: EU Interreg project for the Öresund region “Eco Mobility”. Participant and assistant thematic network coordinator 2009-2011 (*collaboration with industry, Synchron, UBQ, Bring-Frigoscandia, Sony Ericsson*).
- Research Grant: NGIL F4A 08/012 “Multi-echelon inventory control at Tetra Pak Parts”, 2009-2011 (*collaboration with industry, Tetra Pak, Synchron*).
- Research Grant: NGIL F4A 08/009 “Coordinated Inventory Control at Volvo Parts” 2008-2010 (*collaboration with industry, Volvo Parts*).
- Research Grant: Jan Wallanders och Tom Hedelius stiftelse samt Tore Browaldhs stiftelse, administrated by Svenska Handelsbanken, P2008-0107:1 “Methods for cost evaluation and control of integrated supply chain systems”, 2008-2010.
- Research Grant: NGIL F4A 08/007 “Design and Control of Sustainable Supply Chain”, 2008-2011 (*collaboration with industry, Synchron, UBQ, Bring-Frigoscandia, Sony Ericsson*).
- Research Grant: NGIL F4A 06-007 “Evaluation and use of extended information in integrated supply chains”, 2006-2008 (*collaboration with industry, Volvo Parts, Lindab*).
- Co-applicant and member of the consortium that in 2005 was awarded the Vinnova Excellence center in Logistics NGIL (Next Generation Innovative Logistics) located at Lund University, Faculty of Engineering.
- Awarded a scholarship for studying one year abroad at the University of Massachusetts in Amherst, USA (within the “fourth year abroad” program, Linköping Institute of Technology), 1992.
- Awarded for highest graded High School Diploma in class of 1985, Teknikum, Växjö, Sweden, 1988.

The *research grants* listed above correspond to a total funding of about 25 million SEK.