

BIOGRAPHICAL SKETCH

NAME John Öhrvik		POSITION TITLE Professor	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Lund University	B.A.	1971	Statistics
Stockholm University	Ph.D.	1983	Statistics
Swedish University of Agricultural Sciences	Docent	1993	Biostatistics

Further education.

1989	Course in communicating research information arranged by forskningsrådsnämnden, Stockholm.
1994	Train to teach in English at the Manchester University.
2000	Supervision training for Associate and Full Professors at the Swedish University of Agricultural Sciences.
2009	WEB-based course for supervisors at Karolinska Institutet.
2012	Continuation course in pedagogy for doctoral supervisors at Karolinska Institutet.

A. Positions and Honors.

Permanent positions.

2013 – 15	Karolinska Institutet: Professor of Clinical Biostatistics
2004 – 12	Karolinska Institutet: Associate Professor.
2002 – 07	Uppsala University: Associate Professor.
1991 – 2002	Swedish University of Agricultural Sciences: Assistant Professor (1991 – 93), Associate Professor (1993 – 2002).
1973 – 90	Stockholm University: Assistant (1973 – 81), Assistant Professor (1982 – 90), Deputy Head of Department of Statistics (1984 – 89).

Temporary and guest positions.

2013 –	Uppsala University: Guest Professor
2001, Fall	Chiang Mai University, Thailand: Associate Professor.
2001, June	Padova University, Italy: Associate Professor.
1995, Fall	Sokoine University, Morogoro Tanzania: Associate Professor.
1994, 97,99, Fall	University of Agriculture and Forestry, Thu Duc, and National Institute of Animal Husbandry, Ha Noi Viet Nam: Associate Professor.
1994, February	Strathclyde University, Glasgow UK: Associate Professor.

B. Professional Memberships.

2012 –	Member of the European Atherosclerosis Society
2002 –	Member of the International Association for Statistical Computing.
1984 –	Member of the Bernoulli Society for Mathematical Statistics and Probability.
1978 –	Member of the Swedish Statistical Society (until 2007 Swedish Statistical Association), President (2014-) and vice President (1994-95).

C. Peer-reviewed publications. Enclosed papers marked with *. Papers in statistical methodology in red color.

- Nilsson G, Hedberg P, Leppert J, Rosenblad A, and **Öhrvik J**, Basic anthropometric measures in acute myocardial infarction patients and individually sex- and age-matched controls from the general population. In press *Journal of Obesity*.
- Doerstling S, Hedberg P, **Öhrvik J**, Leppert J, Henriksen E, Growth differentiation factor 15 in a community-based sample: age-dependent reference limits and prognostic impact. *Uppsala Journal of Medical Sciences*. 2018 May; DOI:10.1080/03009734.2018.1460427.
- Gustafsson JT, Herlitz Lindberg M, Gunnarsson I, Pettersson S, Elvin K, **Öhrvik J**, Larsson A, Jensen Urstad K, Svennungsson E, Excess atherosclerosis in systemic lupus erythematosus, -A matter of renal involvement: Case control study of 281 SLE patients and 281 individually matched population controls. *PLoS ONE*. 2017 April; 12(4):e0174572., DOI:10.1371/journal.pone.0174572.
- Leander K, Mälarstig A, van't Hooft FM, Hyde C, Hellenius M-L, Troutt JS, Konrad RJ, **Öhrvik J**, Hamsten A, de Faire U, Circulating PCSK9 Predicts Future Risk of Cardiovascular Events Independently of Established Risk Factors. *Circulation*. 2016 Feb; 133(13):CIRCULATIONAHA.115.018531., DOI:10.1161/CIRCULATIONAHA.115.018531.
- Ohrvik J, Protein biomarkers in cardiovascular disease. *Atherosclerosis*. 2015 Jul; 241(1):e40., DOI:10.1016/j.atherosclerosis.2015.04.144
- Nilsson G, Hedberg P, **Öhrvik J**, How to live until 90 – Factors predicting survival in 75-years-old from the general population. *Healthy Aging Research*. 2014 Nov; 3:5. doi:10.12715/har.2014.3.5
- McLeod O, Gertow K, Leander K, deFaire U, Tremoli E, Colhoun H, Hamsten A, Ohrvik J, Lipidomic profile and cardiovascular events in diabetic subjects. *Atherosclerosis*. 2014 Aug; 235(2):e48-e49., DOI:10.1016/j.atherosclerosis.2014.05.112
- Strawbridge RJ, Deleskog A, McLeod O, Folkersen L, Kavousi M, Gertow K, Baldassarre D, Veglia F, Leander K, Gigante B, Kauhanen J, Rauramaa R, Smit AJ, Mannarino E, Giral P, Dehghan A, Hofman A, Franco OH, Humphries SE, Tremoli E, de Faire U, Gustafsson S, Ostensson CG, Eriksson P, Ohrvik J, Hamsten A., (2014) Influence of Coronary Artery Disease-Associated Genetic Variants on Risk of Venous Tromboembolism. Accepted for publication in *Thrombosis Research*.
- Strawbridge RJ, Deleskog A, McLeod O, Folkersen L, Kavousi M, Gertow K, Baldassarre D, Veglia F, Leander K, Gigante B, Kauhanen J, Rauramaa R, Smit AJ, Mannarino E, Giral P, Dehghan A, Hofman A, Franco OH, Humphries SE, Tremoli E, de Faire U, Gustafsson S, Ostensson CG, Eriksson P, Ohrvik J, Hamsten A. A serum 25-hydroxyvitamin D concentration-associated genetic variant in DHCR7 interacts with type 2 diabetes status to influence subclinical atherosclerosis (measured by carotid intima-media thickness). *Diabetologia*. 2014 Mar 25. [Epub ahead of print] PubMed PMID: 24663808.
- Nilsson G, Hedberg P, **Öhrvik J.**, (2014) White blood cell count in elderly is clinically useful in predicting long-term survival. *J Aging Res*. 2014;2014:475093. DOI:10.1155/2014/475093.
- McLeod O, Silveira A, Fredrikson GN, Gertow K, Baldassarre D, Veglia F, Sennblad B, Strawbridge RJ, Larsson M, Leander K, Gigante B, Kauhanen J, Rauramaa R, Smit AJ, Mannarino E, Giral P, Humphries SE, Tremoli E, de Faire U, **Öhrvik J**, Nilsson J, Hamsten A. Plasma autoantibodies against apolipoprotein B-100 peptide 210 in subclinical atherosclerosis. *Atherosclerosis*. 2014 Jan;232(1):242-8.
- Deleskog A, Piksasova O, Silveira A, Gertow K, Baldassarre D, Veglia F, Sennblad B, Strawbridge RJ, Larsson M, Leander K, Gigante B, Kauhanen J, Rauramaa R, Smit AJ, Mannarino E, Giral P, Gustafsson S, Ostensson CG, Humphries SE, Tremoli E, de Faire U, **Öhrvik J**, Hamsten A. Serum 25-Hydroxyvitamin D Concentration in Subclinical Carotid Atherosclerosis. *Arterioscler Thromb Vasc Biol*. 2013 Nov;33(11):2633-8.
- Nohlert E, **Öhrvik J**, Tegelberg A, Tillgren P, Helgason AR. Long-term follow-up of a high- and a low-intensity smoking cessation intervention in a dental setting-- a randomized trial. *BMC Public Health*. 2013 Jun;13(1):592.
- Venskutonyte L, Brismar K, **Öhrvik J**, Rydén L, Kjellström B. Self-rated health predicts outcome in patients with type 2 diabetes and myocardial infarction: a DIGAMI 2 quality of life sub-study. *Diab Vasc Dis Res*. 2013 Jul;10(4):361-7.
- Nilsson G., Hedberg, P. and **Öhrvik J.**, Inflammation and the Metabolic Syndrome – Clustering and Impact on Survival in a Swedish Community-based Cohort of 75-year-olds. *Metabolic syndrome and Related Disorders* 2013 Apr;11(2):92-101.
- Gertow K., Sennblad B., Strawbridge R. J., **Öhrvik J.**, Zabaneh D., Shah S., Veglia F., Fava C., Kavousi M., Kivimäki M., Bolton J. L., Folkersen L., Gigante B., Leander K., Vikström M., Larsson M., Silveira A., Deanfield J., Voight B. F., Fontanillas P., Maria Sabater-Lleal M., Colombo G., Kumari M., Langenberg C., Wareham C. J., Uitterlinden A. G., Gabrielsen A., Hedin U., Franco-Cereceda A., Nyyssönen K., Rauramaa R., Smit A. J., Giral P., Mannarino E., Robertson C., Talmud P. J., Hedblad B., Hofman A., Erdmann J., Reilly M. P., O'Donnell C. J., Farrall M., Clarke R., Franzosi M. G., Seedorf U., Syvänen A.-C., Hansson G.

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- Jie Huang*; Maria Sabater-Lleal*; Folkert W. Asselbergs; David Tregouet, So-Youn Shin, Jingzhong Ding, Jens Baumert, Tiphaine Oudot-Mellkah, Lasse Folkersen, Andrew D Johnson, Nicholas L. Smith, Scott M. Williams, Mohammad A. Ikram, Marcus E. Kleber, Diane M. Becker, Vinh Truong, Josyf C. Mychaleckyj, Weihong Tang, Qiong Yang, Bengt Sennblad, Jason H. Moore, Frances M.K. Williams, Abbas Dehghan, Günther Silbernagel, Elisabeth MC Schrijvers, Shelly Smith, Mahir Karakas, Geoffrey H. Tofler, Angela Silveira, Gerjan J. Navis, Kurt Lohman, Ming-Huei Chen, Annette Peters, Anuj Goel, MSc; Jemma C. Hopewell, John C. Chambers, Danish Saleheen, Per Lundmark, Bruce M. Psaty, Rona J. Strawbridge, Bernhard O. Böhm, Angela M Carter, Christa Meisinger, John F. Peden, Joshua C. Bis, Barbara McKnight, **John Öhrvik**, Kent Taylor, Maria Grazia Franzosi, Udo Seedorf, Rory Collins, Anders Franco-Cereceda, Ann-Christine Syvänen, Alison H. Goodall, Lisa R. Yanek, Mary Cushman, Martina Müller-Nurasyid, Aaron R. Folsom, Saonli Basu, Nena Matijevic, Wiek H. van Gilst, Jaspal S. Kooner, Albert Hofman, John Danesh, Robert Clarke, James B. Meigs, DIAGRAM Consortium; Sekar Kathiresan, Muredach P. Reilly, CARDIoGRAM Consortium; Norman Klopp, Tamara B. Harris, Bernhard R. Winkelmann, Peter J. Grant, Hans L Hillege, Hugh Watkins, C4D Consortium; Timothy D. Spector; Lewis C. Becker; Russell P. Tracy, Winfried März; Andre G Uitterlinden, Per Eriksson, Francois Cambien, CARDIOGENICS Consortium; Pierre-Emmanuel Morange, Wolfgang Koenig; Nicole Soranzo, Pim van der Harst, Yongmei Liu, Christopher J. O'Donnell#, Anders Hamsten#, Genome-Wide Association Study for Circulating Levels of Plasminogen Activator Inhibitor-1 (PAI-1) Provides Novel Insights into the Regulation of PAI-1. *Blood* 2012 Dec;120(24):4873-81.
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- *Nilsson G., Hedberg P. and **Öhrvik J.** Survival of the fattest: unexpected findings about hyperglycaemia and obesity in a population based study of 75-year-olds. *British Medical Journal Open* 2011 Apr;1(1):e000012. doi: 10.1136/bmjopen-2010-000012.
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- Mellbin, L. G., Hamsten, A., Malmberg, K., Steffensen, R., Ryden, L., **Öhrvik, J.** and Hansen, T. K. Mannose-Binding Lectin Genotype and Phenotype in Patients with Type 2 Diabetes and Myocardial Infarction. *Diabetes Care* 2010; 33:2451-56.
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- Anselmino, M., **Öhrvik, J.** and Rydén, L. on behalf of the Euro Heart Survey Investigators Resting heart rate in patients with stable coronary artery disease and diabetes: a report from the Euro Heart Survey on Diabetes and the Heart. *European Heart Journal* 2010;33:1604-09.
- Mellbin, L. G., Rydén, L., Brismar, K., Morgenthaler, N. G., **Öhrvik, J.** and Catrina, S. B. C-terminal-Pro Vasopressin (Copeptin), IGFBP-1 and cardiovascular prognosis in patients with type 2 diabetes and acute myocardial infarction. *Diabetes Care* 2010;33:1604-06.
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- Hedberg, P., **Öhrvik, J.**, Lönnberg, I. and Nilsson, G. (2009) Augmented blood pressure response to exercise is associated with improved long-term survival in older people. *Heart*.
- Nilsson, G., **Öhrvik, J.**, Lönnberg, I. and Hedberg, P. (2009) Ten-year survival in 75-year-old men and women: predictive ability of total cholesterol, HDL-C and LDL-C. *Current Gerontology and Geriatric Research*.
- *Anselmino, M., Malmberg, K., Rydén, L. and Öhrvik, J. (2009) A gluco-metabolic risk index with cardiovascular risk stratification potential in patients with coronary artery disease. *Diabetes and Vascular Disease Research*.**
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- Anne-Marie Aas, A-M., **Öhrvik, J.**, Malmberg, K., Rydén, Birkeland, K. I. for the DIGAMI 2 Investigators (2009) Insulin-induced weight gain and cardiovascular events in patients with type 2 diabetes. A report from the DIGAMI 2 study. *Diabetes, Obesity and Metabolism*.
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- Molarius, A., Tegelberg, Å. and **Öhrvik, J.** (2008) Socio-Economic Factors, Lifestyle and Headache Disorders – A Population-based Study in Sweden. *Headache*.
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- Öhrvik, J. and Schoier, G. (2002) Bootstrapping threshold autoregressive models. In: Härdle, W. and Rönz, B., Proceedings in Computational Statistics 2002.**
- *Öhrvik, J. (1998) Nonparametric Methods in Crossover Trials. Biometrical Journal.**
- *Brattström, L., Wilcken, D., E., L., Öhrvik, J. and Brudin, L. (1998) Common Methylenetetrahydrofolate Reductase Gene Mutation Leads to Hyperhomocysteinemia but Not to Vascular Disease – The Result of a Meta-Analysis. Circulation.**
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- *Öhrvik, J. (1990) Structure or Noise. Computational Statistics Quarterly.**

Den Boer, J., A., Ravelli, D., P., Huisman, J., **Öhrvik, J.**, Verhoeven, W., M., A. and Westenberg, H., G., M. (1990) A Double Blinded Comparative Study of Remoxipride and Haloperidol in Acute Schizophrenic Patients. *Psychopharmacology*.

Öhrvik, J. (1982) *Robust Efficient Estimation of Location*. PhD thesis. In Swedish with English summary.

Öhrvik, J. (1973) En granskning av en random walk modell för beskrivning av aktiers kursrörelser med hjälp spektralanalys. *Statistisk Tidskrift*. In Swedish with English summary.

F. Presentations at international conferences

Invited speaker or moderator

- Conference of European Statistics Stakeholders, Budapest 2016.
- 3rd International Congress on Prediabetes and the Metabolic Syndrome, Nice 2009.
- 12th International Symposium on Atherosclerosis and Related Risk Factors, Athens 2008.
- COST E48: Woody Root Processes – Impact of Different Tree Species, Tartu 2005.
- Fine Root Turnover Workshop, Uppsala 2003.
- XVth Compstat Conference, Berlin 2002.
- 52nd International Statistical Institute Conference, Helsingfors 1999.
- Winter conference on 'Spatial Statistics with Environmental Applications' arranged by the Departments of Statistics, Umeå 1998.
- 5th Symposium on Biometrical Problems, Garpenberg 1993.
- Statistics Sweden's Research Conference 'Risk Calculus and its Application, Djurö 1983.

Abstracts

- 83th European Atherosclerosis Society Congress. Glasgow 2015.
- 82th European Atherosclerosis Society Congress. Madrid 2014.
- 81th European Atherosclerosis Society Congress. Lyon 2013.
- European Society of Cardiology Congress, Muenchen 2012
- 58th International Statistical Institute Conference, Dublin 2011.
- 4th International Congress on Prediabetes and the Metabolic Syndrome, Madrid 2011.
- Joint meeting GfKI – CLADAG, Firenze 2010.
- European Society of Cardiology Congress, Stockholm 2010.
- 78th European Atherosclerosis Society Congress. Hamburg 2010.
- 57th International Statistical Institute Conference, Durban 2009.
- 2nd Nordic-Baltic Biometric Conference, Tartu 2009.
- European Society of Cardiology Congress, Muenchen 2008.
- 77th European Atherosclerosis Society Congress. Istanbul 2008.
- 56th International Statistical Institute Conference, Lisboa 2007.
- 2nd International Congress on Prediabetes and the Metabolic Syndrome, Barcelona 2007.
- XVth World Congress of Cardiology, Barcelona 2006.
- 26th European Meeting of Statisticians, Torun 2006.
- EuroPREvent Congress, Athens 2006.
- 3rd World Conference on Computational Statistics and Data Analysis, Limassol 2005.
- European Society of Cardiology Congress, Stockholm 2005.
- 1st International Congress on Prediabetes and the Metabolic Syndrome, Berlin 2005.
- 54th International Statistical Institute Conference, Berlin 2003.
- 23rd European Meeting of Statisticians, Funchal 2001.
- XiVth Compstat Conference, Utrecht 2000.
- 5th World Congress of Bernoulli Society, Guanajuato 2000.
- 5th International Congress of Parkinson's Disease and Movement Disorders, New York 1998.
- 4th World Congress of Bernoulli Society, Wien 1996.
- 50th International Statistical Institute Conference, Peking 1995.
- 49th International Statistical Institute Conference, Florence 1993.
- 20th European Meeting of Statisticians, Bath 1992.
- 47th International Statistical Institute Conference, Paris 1989.
- 18th European Meeting of Statisticians, Berlin 1988.
- 17th European Meeting of Statisticians, Thessalonica 1987.
- 16th European Meeting of Statisticians, Marburg 1984.

G. Research & Research Support

See attached documents on Future research plans Research grants.

Ongoing Research (personal)

See attached documents on Future research plans.

H. Journal Reviews & Editorial Activities

Archives of Gerontology and Geriatrics
Biometrical Journal
Biometrics
British Medical Journal
Cardiology
Circulation (28 reviews)
Computers and Electronics in Agriculture
European Journal of Applied Physiology
European Journal of Cardiovascular Prevention and Rehabilitation
Journal of Official Statistics
Journal of Statistical Planning and Inference
Nutrition Journal
Nutrition, Metabolism & Cardiovascular Diseases
Scandinavian Journal of Statistics
Statistics in Medicine

I. Opponent & Expert Activities

Appointed as expert for the judgement of applications for positions as Senior Lecturer and Assistant Professor in statistics at the Department of Statistics, Stockholm University.

Faculty opponent on the following respondents PhD or licentiate theses in Statistics and Mathematical Statistics:

Jan-Olof Johansson, Lund University
Erik Järpe, Göteborg University
Martin Karlberg, Stockholm University
Ana-Maria Quiroga, Uppsala University
Marie-Louise Öhman, Umeå University
Per-Olof Edlund, Stockholm University
Hans Paulander, Stockholm University

Member in the PhD examination boards for the following respondents:

Can Cui, Karolinska Institutet
Jiaqi Huang, Karolinska Institutet
Vera Lisovskaja, Göteborg University
Per Näsman, Royal Institute of Technology
Andreas Karlsson, Uppsala University
Erik Lövfing, Linköping University
Göran Hallsby, Swedish University of Agricultural Sciences

J. External Activities

I have had a number of external commissions, mainly for the Pharmaceutical industry. Just to mention a few I have been statistical expert in ACE inhibitor and levodopa studies conducted by Roche, pain and psycho-pharmacological agent studies conducted by AstraZeneca.

Together with Per Näsman, KTH I have also developed the forecast model that AstraZeneca uses to predict the pharmacies monthly demand of their drugs.

K. Supervising

I have been the main supervisor on the following PhD thesis:

Matteo Anselmino 'Diabetes mellitus in patients with coronary artery disease: cardiovascular risk assessment and impact of available treatments', Department of Medicine, Karolinska Institutet 2008. He is since 2009 Assistant Professor at the Division of Cardiology, Department of Internal Medicine, University of Turin, S. Giovanni Battista "Molinette" Hospital.

and the following Tesi di Laurea (which are enclosed to give an idea of the quality and quantity):

Paolo Piazza 'Diagnosi della schizofrenia tramite l'analisi spettrale dell'elettroencefalogramma' 2001. Grade 12 on a 12 grade scale.

Andrea Pagnutti 'Il mercato azionario svedese: analisi e previsione di rendimenti settimanali' 1999. Grade 8 on a 12 grade scale.

and co-supervisor on the following PhD thesis:

Eva Nohlert 'Smoking cessation Treatment intensity and outcome in randomized clinical trials' Center for Clinical Research, Central Hospital Västerås, Uppsala University 2013.

Laura Venskutonyte 'Aspects on gender, quality of life and diastolic function in patients with cardiovascular disease and type 2 diabetes' Karolinska Institutet 2013.

Anders Westman 'Musculoskeletal pain in primary health care : A biopsychosocial perspective for assessment and treatment', Örebro University 2010.

Kent Nilsson 'Gene-Environment Interaction in Adolescent Deviant Behaviour', Center for Clinical Research, Uppsala University 2006. He is since 2011 Full Professor.

Per Andersson 'Predicting Health Behaviour – Population Based Studies of Knowledge and Behaviour Related to Cardiovascular Medicine', Center for Clinical Research, Uppsala University 2006.

During my years at Karolinska Institutet, Uppsala University, Swedish University of Agricultural Sciences and Stockholm University I have been supervising several PhD students concerning the statistical parts of their PhD theses. I have also been supervisor for several C- and D-level exam works both in Stockholm and Uppsala and for about 20 Master students within the MSc program 'Livestock-based Systems for Sustainable Use of Natural Renewable Resources'.

The neural network models for classifying patients with schizophrenia using eeg signals which Paola Piazza developed in his Tesi di Laurea has later been improved by Matteo Anselmino who used them for predicting cardiovascular events using easily available clinical variables. Recently Laura Venskutonyte, to whom I am co-supervisor, has submitted a paper based on the improved neural network models. In 3 of the 4 papers in Kent Nilsson's thesis the non parametric interaction test in the general two-way layout, which I developed, have been of great importance for the main conclusions.

L. Teaching

During more than 30 years I have developed and given the following intermediate and PhD level courses:

At Karolinska Institutet, Department of Medicine, Atherosclerosis research unit and Cardiology unit:

- (i) Design and Analysis of Biomedical Studies

At the Swedish University of Agricultural Sciences (all courses given in English).

- (i) Analysis of Categorical Data.
- (ii) Bootstrap and other Computer Intensive Methods.
- (iii) Design and Analysis of Biomedical Experiments.
- (iv) Minitab Course funded by SAREC. Held at the Sokoine University, Morogoro, Tanzania, 1995.
- (v) Multivariate Methods.
- (vi) Nonparametric Methods.
- (vii) Statistics and Experimental Design. MSc course in the program 'Livestock-based Systems for Sustainable Use of Natural Renewable Resources' funded by SAREC. Held at the University of Agriculture and Forestry, Thu Duc, Viet Nam 1994, 1997 and 1999.

(viii) Statistics in Veterinary Medicine.

I have also given special PhD courses at the Faculty of Veterinary Medicine based on the participants own materials - 'Experimental Planning and Statistical Analysis of Experiments with Small Sample Sizes' Uppsala 1998 and 'Design and Analysis of Biostatistical Experiments' Skara 2000.

Fall 1996 I led a study circle on the subject 'Image Processing in Bio- and Geosciences' at the Department of Statistics, Swedish University of Agricultural Sciences.

At Stockholm University (courses not mentioned above)

- (i) Computer Science and Numerical Methods.
- (ii) Data Analysis - especially Robust Methods.
- (iii) Regression- and Variance Analysis.
- (iv) Time Series Analysis.

I have taken part in several external courses, of which some are listed below.

- (i) Fall 2001 Design and analysis of biological experiments, including on farm animal research. For PhD students in animal research from south-east Asia, held at Chiang Mai University, Thailand.
- (ii) June 2001 Intensive course in Bootstrap Methods for PhD students in Statistics at Padova University.
- (iii) September 1999 Intensive course 'Analysis of Categorical Data using Logistic Regression' for researchers and PhD students at the Institute of Animal Husbandry Ha Noi, Viet Nam.
- (iv) August 1999 Invited lecturer at DINA (Danish Informatics Network in Agricultural Sciences) Research Summer School's fortnight course 'Computer Intensive Statistical Methods with Applications in Agriculture. I lectured on Bootstrap Methods.
- (v) 1998 One of the invited main lecturers at the winter conference on 'Spatial Statistics with Environmental Applications' arranged by the Departments of Statistics, Umeå.

I have been invited to give seminars at several Departments of Statistics – Strathclyde University Glasgow, Università degli Studi di Padova, Lund, Göteborg, Uppsala and Umeå University as well as companies like AstraZeneca and Statistics Sweden.

M. Administration

- (i) During the period 1994 to 2002 I was ERASMUS coordinator at the Department of Biometry and Informatics. 1997 I was leading the project for developing the ECTS Information Package and implementing ECTS within the Swedish University of Agricultural Sciences.
- (ii) For more than a decade I was responsible for the computer activities at the Department of Statistics, Stockholm University. During this period the Department was computerized and I was responsible for purchase negotiations, installation, run in and software implementation on the VAX system chosen.
- (iii) I was Deputy Head of the Department of Statistics, Stockholm University, September 30 1984 to June 30 1989.
- (iv) During the period January 1 1980 to June 30 1987 I was a member of the Program Committee for the Mathematical and System Sciences (Matematisk-Systemvetenskapliga linjenämnden) at Stockholm University.

