CV for Staffan Nilsson

Education & appointments

- Fil kand (Bachelor), mathematics, physics & computer science, Lunds universitet, 1980
- PhD in mathematical statistics, "Which Genes are Involved – Statistical Planning and Analysis of Human Genetic Samples", Chalmers tekniska högskola, 2001-09-07. Supervisor: Olle Nerman.
- Associate professor in mathematical statistics 2004
- Professor in medical statistics 2020

Employments

- Systems Programmer, Göteborgs Datacentral, 1980-81
- Systems Programmer, Lunds Universitets Datacentral, 1981-84
- System Analysist, ADB-kontoret, 1984-85
- Methods & Technical Consultant, Data Logic, 1985-86
- Software Constructor, Teli, 1986-87
- Data administrator (Information repository & Conceptual modeling), SKF Dataservice, 1987-94
- Methods Consultant, own company, 1994-95
- PhD student, Mathematical Statistics, Chalmers, 1996-2001
- Researcher, Clinical Genetics, Sahlgrenska Universitetssjukhuset (50%), 2001-2002
- Researcher, Mathematical statistics, Chalmers (50%), 2001-2002
- Assistant professor, Mathematical Sciences, Chalmers, 2003
- Associate professor at Mathematical Sciences, Chalmers 2004- 2021
- Associate professor at Biomedicine, Sahlgrenska Academy 2017- present

Other assignments

- Head of the core facility Swegene Bioinformatics at Sahlgrenska Academy 2003-2007
- Sakkunnig (primary expert for the government), Socialdepartementet, S 2001:01 Kommitten om genetisk integritet, SOU 2004:020 Genetik, integritet och etik.
- Peer reviewer for Swedish Research Council – Clinical Therapy grants 2020-2021

Publications

257 Peer reviewed papers, h-index 56

Teaching

- Tutorials, Matematical statistic for chemistry engineering, 1996
- Lecturer, Basic statistics for environmental science, Göteborg University, twice 1997
- Lecturer, Statistical genetics, phd course at Sahlgrenska Academy, 1999
- Lecturer, Nonparametrics, Göteborg University, 2002
- Lecturer, Basic medical statistics, phd course at Sahlgrenska Academy, 2003- 2012
- Lecturer, Finding genes in human genetic traits and diseases, phd course at Sahlgrenska Academy, 2005 and 2006
- Lecturer, Statistics in genetics, Chalmers masters programme in Bioinformatics, 2007

- Lecturer, Advanced medical statistics, phd course Sahlgrenska Academy, 2007,2009-2012
- Lecturer, Genetic association studies, phd course, Sahlgrenska Academy, 2013
- Lecturer, Mathematical statistics for chemistry engineering, 2013
- Lecturer, Genetic epidemiology, phd course, Chalmers, 2014
- Lecturer, Basic statistics for science students at GU (2course / year), 2014-2020
- Lecturer, Basic statistics for farmaci students at GU, 2014-2020
- Lecturer, Basic statistics for medical students at GU, 2019-2023

Masters students

1. Elham Tantawi, Kanonisk korrelation och genetisk kopplingsanalys med multivariata fenotyper (2003)
2. Susanne Henningsson Associationsstudier i psoriasis (2003)
3. Nicolas Robine & Marshall Huston, Statistical test for association studies and applications (2004)
4. Lisa Wallman, Implementering av system för att lagra och visualisera data om genetisk koppling (2004)
5. Sahar Hassani Linkage and Association study on chromosomes 4 and 5 for Celiac Disease in Scandinavian affected families (2008)
6. Arvid Sonden Expression analysis with QPCR (2013)

Bachelor students

1. Vanessa Emanuelsson, Ida Petersson & Oskar Svensson Hur mycket släkt är släktingar? – en studie i den genetiska likhetens variation (2012),
2. Malin Boström, Sara Emanuelsson, Linus Eriksson, Johan Wiebe Hata slumpen – När bör en miljö undersökas på grund av en sjukdomsanhopning (2012),
3. Semka Dedic, Ludwig Nylin, Dennis Schönbeck Missing heritability eller misslyckad modellering (2014)
4. Love Carlson, Henrik Imberg, Tobias Mikaelsson, Fredrik Sangberg, Ofullständig justering (2014)

Pedagocical courses/seminars

- Undervisning, inlärning och presentationsteknik, 3hp, Chalmers, 1997
- TLE202 Supervision of Research, 3 hp, Chalmers 2010
- Handledarforum, Chalmers 2011
- CIU915 Philosophy of learning, 3 hp, Chalmers 2016
- HPE103 Teaching and learning in higher education 3: Applied analysis, 5hp, GU, 2019

Main supervisor

1. Cilla Persson Aspects of Missing Information in Genetic Linkage and Association Studies, Licentiate thesis, Chalmers University of Technology 2006
2. Malin Östensson, Statistical Methods for Genome Wide Association Studies, PhD thesis, Chalmers University of technology 2012

Co-supervisor of phd student

1. Claes Ladenvall, Genetic association studies in stroke, Göteborgs Universitet 2008
2. Anna Öhman Congenital Muscular Torticollis, Göteborgs Universitet 2008
3. Susanne Henningsson On the influence of serotonin- and sex steroid-related genetic variation on mood, anxiety, personality, autism and transsexualism, Göteborgs Universitet 2008
4. Emma Samuelsson, Analyses of Rat Tumor Models for DMBA-induced Fibrosarcoma and Spontaneous Endometrial Carcinom, Göteborgs Universitet 2008
5. Malin von Otter, Susceptibility genes in conformational diseases, Göteborgs Universitet 2009
6. Ellen Hansson, Hemostatic pathways in ishemic stroke. Clinical studies of genetic variation and plasma protein measurements, Göteborgs Universitet 2012
7. Petra Bergström, The protective role of Nrf2/Keap1 in neurological disease and oxidative stress-induced cell damage, Göteborgs Universitet 2013
8. Dragana Celojevic, Estrogen and risk of cataract – is superoxide dismutase the link?, Göteborgs Universitet 2014
9. Anna Rohlin, Hereditary Colorectal Cancer; Identification, Characterization and Classification of Mutations, Göteborgs Universitet 2015
10. Sara Svahn, Effects of dietary fats on the immune system, Göteborgs Universitet, 2015
11. Jonas Bacelis, Genetic factors affecting pregnancy duration in humans, Göteborgs Universitet, 2018
12. Susanna Larsson, The Importance of the Epigenome in Tumour Development and Recurrence, Göteborgs Universitet, 2019
13. Fredrik Hieronymus, On the effects of serotonin reuptake inhibitors in major depression, Göteborgs Universitet, 2019
14. Annie Pedersen, Genetics and hemostasis in ischemic stroke, Göteborgs Universitet, 2019
15. Anna Rehammar, NGS in cancer and metagenomics, Chalmers University of Technology 2019
16. Martina Olsson, On the importance of the hemostatic pathway in ischemic stroke, Göteborgs Universitet, 2020
17. Lisa Olsson, Microbiome, Development and dynamics of the normal gut microbiota, Göteborgs Universitet, 2020
18. Dominika Modzelewska, Methodological considerations in epidemiological studies in perinatal medicine, Göteborgs Universitet, 2021
19. Johanna Wiik, Human papillomavirus and preterm delivery, Göteborgs Universitet, 2022
20. Frida Eiengård, Molecular genetics of hereditary breast and colorectal cancer, Göteborgs Universitet, ongoing
21. Aldina Pivodic, Statistical modelling for prediction of clinical outcomes in neonatology, Göteborgs Universitet, ongoing
22. Maria Nethander, Mendelian randomization, Göteborgs Universitet

23. Karin Ytterberg, Familial aggregation of gestational duration and preterm delivery, Göteborgs Universitet, ongoing.

Post docs

1. Sven Nelander, Swegene Bioinformatics, 2005
2. Magnus Alm Rosenbladh, Swegene Bioinformatics, 2005
3. Frida Abel, Swedish Research Council, 2008-2009

Examination board

- Examination board, Anna Johansson, Detecting Deletions by Analysis of Genetic Markers in Pedigrees, Lunds Universitet 2007
- Examination board, Linda Lindström, Population-based family studies: Genetic contribution to cancer development and survival?, Karolinska Institutet, 2008
- Examination board, Sandra Karlsson, Studies on familial cancer - a population-based approach, Göteborgs Universitet 2008
- Examination board, Marketa Sjögren, Genetics of Metabolic Syndrome and Obese Type 2 Diabetes: From Genome-Wide Linkage Scans and Candidate Genes to Genome-Wide Association Studies, Lunds Universitet 2008
- Examination board, Marcela Davila Lopez, Bioinformatics approaches to examine the evolution of proteins and ncRNAs , Göteborgs Universitet 2011
- Examination board, Myeongjee Lee, Effects of Kinship and Timing in Familial Cancer, Karolinska Institutet 2015

Faculty opponent

- Lars Ängquist, Pointwise and Genomewide Significance Calculations in Gene Mapping through Nonparametric Linkage Analysis Lunds Universitet 2007
- Viktor Henmyr, Genetics of complex disease, Lunds Universitet 2017
- Miriam Gjerdevik, Family-based genetic association models, Universitetet i Bergen 2020

Conference organization

- Organizer of the yearly conference "Statistikerträffen" at Chalmers in 2007-2019
- Member of the organization committee for the 9th European Conference on Mathematical and Theoretical Biology 2014