

Curriculum vitae

Anna Grimby-Ekman, 671228-5003

Occupational and Environmental Medicine
Sahlgrenska University hospital and Gothenburg University
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Academic degrees:

2010 PhD (Medicine)
1997 PhLic (Statistics)
1990 BSc (Mathematical Statistics)

Parental leave, major periods (4 children born 1993, 1996, 1997, 2002):

2000 Dec – 2002 June	20 %
2002 July – 2004 Aug	100 %
2004 Sept – 2006 Sept	40-50 %
2006 Oct – 2009 Dec	20-30 %

International academic studies:

1991-1995 Graduate courses in statistics, totally two semesters at Department of Statistic, Gothenburg university.

1992 Graduate courses in statistics. Two semesters at University of Madison-Wisconsin.

2000 *Statistical methods in Epidemiology*. One-week-course at The Nordic School of Public Health, Göteborg, Sweden, Hans Wedel, Bo Eriksson.

2000 *Principles of Etiologic/Etiognostic research*, NIVA-course, Norrköping, Sweden, Olli S Miettinen, Olav Axelsson.

2000 *Advanced statistical models in Epidemiology*, ERASMUS-course, Rotterdam, Netherlands, Michael Hills and David Clayton.

2000 *Indicators for Monitoring and Surveillance of Health, Safety and Working Conditions*, NIVA-course, Göteborg, Sweden

2001 *Analysis of ordinal data*, graduate course at Department of Economy, Statistics and Informatics, Örebro University, Elisabeth Svensson.

2005 *Analysis of Repeated Categorical Measurement Data - a short course in statistics*, Örebro University, Alan Agresti.

2006 *Introduction to Rasch analysis using RUMM2020*. Alan Tennant. . University of Gothenburg, 28-30 November.

2008 *Health in Context: A course in multilevel modelling for Public Health Services Research*. A Leyland and P Groenewegen. University of Gothenburg, 31 Mars-4 April.

2008 *Muskuloskeletal sjukdomar, aktuella forskningsmetoder*, 7.5 p, Avd. för Ortopedi, Sahlgrenska akademin, Göteborgs universitet, HT-08.

2009 *Methods for assessment of work ability.*, 6 hp, Sahlgrenska Academy, Gothenburg University.

2010 *Project management and leadership in professional organizations – for Ph D students*, 7.5 hp, Gothenburg University

2011 HPE201, *Handledning i forskarutbildning*, 5 hp, Göteborgs Universitet, Vt 2011

2011 HPE101, *Behörighetsgivande högskolepedagogik 1: Baskurs*, 5 hp, Göteborgs Universitet, Ht 2011

2011 HPE102, *Högskolepedagogik 2: Områdesspecifik pedagogik*, 5 hp, Göteborgs Universitet, Ht 2011

2011 *Causal inferens*, Bianca De Stavola and Rhian Daniel, Uppsala University, 8-9 December.

- 2012 HPE103, *Högskolepedagogik 3: Självständigt arbete*, 5 hp, Göteborgs universitet, Vt 2012
Humanbiologi, 7.5 hp, Göteborgs universitet, Vt 2012
Introduktion, Biodiversitet och Energimetabolism, 7 hp, Ht 2012
- 2014 Introductory Human Physiology, 12 week online course, Duke University. Coursera certificate received: completed with distinction.
 Vital Signs: Understanding What the Body Is Telling Us; 12 week online course, University of Pennsylvania. Coursera certificate received.
 Preventing Chronic Pain: A Human Systems Approach, 9 week online course, University of Minnesota. Coursera certificate received

Present and former positions:

- 2013- Associate senior lecturer at Gothenburg university 100%, Linköpings university 20%
- 1999-2013 Statistician and researcher at Occupational and Environmental Medicine, Sahlgrenska University Hospital
- 1995-1998 Teacher in statistics for bachelor-students (Vårdhögskolan, Göteborg) and consultant working with research projects mainly at: Astra-Tech in Gothenburg, Sweden and Department of rehabilitation medicine, Gothenburg university

Chairman for Swedish Society for Medical Statistics, FMS (286 members 2013)

2012 Mars 21st – 2014 Mars 20th

Reviewer for:

Journal of Rehabilitation Medicine
 BMC Musculoskeletal Disorder

Present Ph D students under supervision: Maria Boström, Emina Hadzibajramovic

Supervision Post Doc: Olga Susoliakova, doktorand Charles university, Prag, handledare för två artiklar, ca 80 tim under Vt-2013

Super vision Master level projects:

Sara Johansson, Masteruppsats, Matematiska institutionen, Chalmers, "Confidence intervals for risk differences of binary recurrent outcomes.", 20 timmar, Vt-2011.

Anna Sjöström, C-uppsats, bi-handledare och projektledare, Statistiska institutionen, Lunds Universitet, "On Ordinal Outcome in Logistic Regression", 10 timmar, Ht-2011 och Vt-, Ht-2012

Caroline Flärdh, projektarbete Läkarprogrammet, huvudhandledare, " Pain and perception thresholds – do the tell the same story", 20 tim, Ht-2013

Pauline Stens, projektarbete Läkarprogrammet, huvudhandledare, " Pain and perception thresholds – reliability", 20 tim, Ht-2013

Marcus Vestling, projektarbete Läkarprogrammet, huvudhandledare, " What is known about the burden of long-lasting musculoskeletal pain? A systematic literature review", 20 tim, Vt-2014

Kristoffer Struck, projektarbete Läkarprogrammet, huvudhandledare, "Chronic musculoskeletal symptoms and comorbidity in young adults.", 20 tim, Ht-2014

Opponent at Ph D half-time examinations

2013

Magnus Åkerström Dept. Medicine, Gothenburg University

Daniel Olsson Dept. Medicine, Gothenburg University

2014

Hanna Weimann Dept. Medicine, Lund University

Grants

2011

2012-2014 **FAS 2011-0297, Postdoc grant:** Possible causal explanations for neck pain, generalized pain, load sensitivity and work ability. 1 600 000 kr.

2012-2014 **FAS 2011-0356, Project grant:** Load Sensitivity – do people with chronic pain have other patterns of pain thresholds and perceived pain after a physical load compared to healthy controls? 2 780 000 kr. (Not retrieve, as not allowed to retrieve both FAS-grants, Dnr 2011-0297 and Dnr 2011-0356.)

FORTE 2014-2822, travelling grant: “Work ability and kinesiophobia among patients with persistent pain”, Buenos Aires, Argentina, 15th World Congress IASP 2014, 6-11 October 2014. **Amount:** 21 600 kr

FAS 2012-1566, travelling grant: Workshop ”Methods for Causal Mediation Analysis”, Minneapolis, 27 juni 2012 samt 45th Annual Meeting of Society for Epidemiological Research (SER), Minneapolis, 27-30 June 2012 **Amount:** 17 200 kr

FAS 2011-1612, travelling grant: Symposium of the EFIC Meeting, Hamburg, Germany, 19-20 sept 2011 and 7th Congress of the European Federation of IASP Chapters (EFIC), Hamburg 21-24 September. **Amount:** 13 500 kr.

Foundation fund in memory of mutual Accident Insurance Company Land and Sea (Stiftelsen fond till minne av ömsesidiga Olycksfallsförsäkringsbolaget Land och Sjö), **travelling grant:** Konferensen EPICOH (Epidemiology in Occupational Health) i Oxford 7-9 september 2011. **Amount:** 10 000 kr.

Swedish Society for Medical Statistics, FMS (Föreningen för Medicinsk Statistik), **travelling grant:** A short course on concepts and methods in Causal Inference, Uppsala 8-9 December 2011. **Amount:** 4500 kr.

Thesis work: Grimby-Ekman, A. (2010). Epidemiological aspects of musculoskeletal pain in the upper body. Analyzing common and recurrent binary outcomes. Institute of Medicine. Department of Public Health and Community Medicine, Gothenburg University. <http://hdl.handle.net/2077/23888>.

Research report (PH Lic Statistics): Ekman A. (1997). Sequential probability ratio tests when using play-the-winner allocation. Research report 1997:1. ISSN 0349-8034.

Peer review Publications

2015

1. Hadzibajramovic E, Ahlborg jr G, Grimby-Ekman A*, Lundgren-Nilsson Å*. "Internal Construct Validity of the Stress-Energy Questionnaire in a working population. *Shared last authorship. BMC Public Health." BMC Public Health 2015, **15**:180

2014

2. Susoliakova O, Smejkalova J, Bickova M, Potuznikova D, Hodacova L, Grimby-Ekman A, Fiala Z. "Salivary cortisol in two professions: daily cortisol profiles in school teachers and firefighters". Neuro Endocrinology Letters. 2014, Vol. 35 No.4.
3. Persson C, Danielsson A, Sunnerhagen K, Grimby-Ekman A, Hansson P O. "Timed Up & Go as a Measure for Longitudinal Change in Mobility after Stroke - Postural Stroke Study in Gothenburg (POSTGOT)". Journal of NeuroEngineering and Rehabilitation. 2014, Vol 11(1).

2013

4. Persson C, Sunnerhagen K, Danielsson A, Ekman-Grimby A, Hansson P O. "Responsiveness of a modified version of the Postural Assessment Scale for Stroke Patients and longitudinal change in postural control after stroke - Postural Stroke Study in Gothenburg (POSTGOT)". Journal of NeuroEngineering and Rehabilitation. 2013, 10:8.

2012

5. Grimby-Ekman A, Hagberg M. "Simple neck pain questions used in surveys, evaluated in relation to health outcomes: A cohort study". BMC Research Notes. 2012, 5:587.

2011

6. Lundberg M, Grimby-Ekman A, Verbunt J, Simmonds M. "Pain-Related Fear: A Critical Review of the Related Measures." Pain Research and Treatment 2011 vol. 2011, Article ID 494196, 26 pages, 2011. doi:10.1155/2011/494196

2010

7. Ahlstrom L, Grimby-Ekman A, Hagberg M, Dellve L. "The work ability index and the single-item question: associations with sick leave, symptoms, and health - a prospective study of women on long-term sick leave" Scand J Work Environ Health 2010, 36:5:404-12.
8. Keen C, Olin AC, Eriksson S, Ekman A, Lindblad A, Basu S, Beermann C, Strandvik B. "Supplementation with Fatty acids influences the airway nitric oxide and inflammatory markers in patients with cystic fibrosis." J Pediatr Gastroenterol Nutr 2010 **50**(5): 537-44.
9. Love J, Grimby-Ekman A, Eklof M, Dellve L, Hagberg M. "Pushing oneself too hard": Performance-based self-esteem as a predictor of sickness presenteeism among young adult women and men - a cohort study." J Occup Environ Med 2010, 52:6:603-9.

2009

10. Grimby-Ekman A., Andersson E. M., Hagberg M. "Analyzing musculoskeletal neck pain, measured as present pain and periods of pain, with three different regression models: a cohort study." BMC Musculoskeletal Disorders 2009, 10:p. 73-83 **Highly accessed**

2006

11. Hagberg M, Burström L, Ekman A, Vilhelmsson, R. "The association between whole body vibration exposure and musculoskeletal disorders in the Swedish work force is confounded by lifting and posture." Journal of Sound and Vibration 2006, 298: p. 492-8.

2005

12. Sanden H., Edblom M., Ekman A, Tenenbaum A, Wallin B. G, Hagberg M. "Normal nerve conduction velocity and vibrotactile perception thresholds in computer users." *Int Arch Occup Environ Health* 2005, 78(3): 239-42.

2003

13. Wahlstrom J., Lindegard A., Ahlborg G., Jr., Ekman A., Hagberg M. "Perceived muscular tension, emotional stress, psychological demands and physical load during VDU work." *Int Arch Occup Environ Health* 2003, 76(8): 584-90.

2001

14. Olin A. C., Aldenbratt A, Ekman A, Ljungkvist G, Jungersten L, Alving K, Torén K. "Increased nitric oxide in exhaled air after intake of a nitrate-rich meal." *Respir Med* 2001, 95(2): 153-8.
15. Olin A. C., Stenfors N., Toren K., Blomberg A., Helleday R., Ledin M. C., Ljungkvist G., Ekman A., Sandstrom T. "Nitric oxide (NO) in exhaled air after experimental ozone exposure in humans." *Respir Med* 2001, 95(6): 491-5.

2000

16. Ekman A, Hagberg M, Andersson A, Wigaeus Tornqvist E.. "Gender differences in musculoskeletal health of computer and mouse users in the Swedish work force." *Occupational Medicine* 2000, 50: 608-13.

Other scientific publications

2005

1. Lindegård Andersson A, Ekman A. Reply to the short communication paper by T.P. Hutchinson regarding "Concordance between VDU-users' ratings of comfort and perceived exertion with experts' observations of workplace layout and working postures". *Applied Ergonomics* 2005, 36, 319–325
2. Ekman A. Comments on modeling longitudinal ordinal data. Electronic letter to *Occup Environ Med*, 13 December 2005. <http://oem.bmjournals.com/cgi/eletters/58/5/345#272>.

Swedish Reports

2013

1. Stefan A., Thomée S., Ekman A., Eklöf M., Andrén M., Hagberg M. (2013). Validitets- och reliabilitetstestning av kortversioner av Krav, Kontroll, Socialt Stöd och Effort-Reward Imbalance. Rapport från Arbets- och miljömedicin, Göteborg, Arbets- och miljömedicin: 148.

2011

2. Mats Eklöf, Gunnar Ahlborg jr, Christina Grill, Anna Grimby-Ekman, Eva-Carin Lindgren, Ewa Wikström. (2011). DIALOGTRÄNING PÅ VÅRDARBETSPLATSER. En studie av interventionseffekter och processer med användning av kvantitativ och kvalitativ metodik. Institutet för stressmedicin, Göteborg, ISM-RAPPPORT 11

2009

3. Ahlstrand A., Dellve L., Ekman A., Jonsson A., Åhlström L., Hagberg M. (2009). Reliabilitetstestning av funktionstest för arbetet i hemmet (Cutley wiping performance test). Rapport från Arbets- och miljömedicin. Göteborg, Arbets- och miljömedicin: 124.

2008

4. Ekman A., Ahlstrand C., Andrén M., Boström M., Dellve L., Eklöf M., Eriksson J., Gustafsson E., Hagberg J., Lindegård A., Thomée S., Åhlström L., Hagberg M. (2008). UngVuxen - Basenkät. Rapport från Arbets- och miljömedicin. Göteborg, Arbets- och miljömedicin: 236.

2005

5. Eriksson J., Ahlberg G., Ahlstrand C., Boström M., Dellve L., Eklöf M., Ekman A., Gustafsson E., Lindegård A., Thomée S., Vilhelmsson R., Hagberg M. (2005). H24 kohort - 2005. Rapport från Arbets- och miljömedicin. Göteborg, Arbets- och miljömedicin: 50.

2002

6. Hagberg M., Andrén AB., Edblom M., Ekman A., Hållander AK., Jacobsson H., Karlberg K., Karlsson E., Sjödin B., Tenenbaum A., Wallin G. (2002). Nervskador hos datoranvändare. Rapport från Arbets- och miljömedicin. Göteborg, Arbets- och miljömedicin: 93.

2001

7. Ekman A., Hagberg M., Andersson A, Wigaeus Tornqvist E. (2001). Datorarbete i Sveriges sysselsatta befolkning - Utveckling samt samband mellan bundna arbeten, stressiga arbeten, arbeten med dålig arbetsledning och hälsa. Göteborg, Yrkes- och miljömedicin. Rapport från Yrkes- och miljömedicin nr 86.

2000

8. Dellve L., Allebeck P., Bengtsson B., Ekman A., Hagberg M., Hansson T., Herloff B., Karlberg K., Lagerström M., Lindén A. (2000). Arbetsskadeincidens i äldreomsorgen. En studie av vårdbiträden och undersköterskor 1994-1998 inom privat och kommunal omsorg om äldre och funktionshindrade. Rapport från Yrkes- och miljömedicin nr 79.

Conference Contributions

1. Grimby-Ekman A., Sandén H, Wentz K, Hagberg M, Larsson B, Gerdle B. Studien om belastningskänslighet – Preliminära resultat. Svenskt Smärtforum, Uppsala, 23-24 October, 2014.
2. Åkerström M-L, Grimby-Ekman A., Lundberg M. Work ability and kinesiophobia among patients with persistent pain. 15th World Congress on Pain. Buenos Aires, Argentina, 7-11 October, 2014.
3. Johansson S, Noor A, Grimby-Ekman A., Can we trust estimates of risk differences and their confidence intervals, if based on logistic regression? 45nd Annual Meeting of the Society for Epidemiologic Research. Minneapolis, USA. . June 27-30, 2012.
4. Ahlstrand C, Grimby-Ekman A., Elam M, Hagberg M. The influence of applied force on the thermal perception thresholds of the index finger. 14th World Congress on Pain. Milano, Italy. August 27-31, 2012.
5. Grimby-Ekman A., Andersson EM, Hagberg M. Epidemiological aspects of neck pain. Analyzing common and recurrent binary outcomes. 7th congress of the European Federation of IASP® Chapters (EFIC®). Hamburg, Tyskland, September 21 - 24, 2011.
6. Grimby-Ekman A., Andersson EM, Hagberg M. Neck pain and perceived stress. Analyzing repeated binary outcomes from a cohort study. EPICOH (Epidemiology in Occupational Health) i Oxford 7-9 september 2011
7. Grimby-Ekman A., Hagberg M. Validity of simple neck pain assessments in relation to aspects of health-related quality-of-life and decreased general performance. EPICOH (Epidemiology in Occupational Health) i Oxford 7-9 september 2011.
8. Grimby-Ekman A., Andersson EM, Hagberg M. To present results from a logistic regression, without mentioning the Odds Ratio. 432-S. 43nd Annual Meeting of the Society for Epidemiologic Research “Epidemiology in an Interconnected World”. June 23-26. SER 2010 Seattle, USA.

9. Grimby-Ekman A, Andersson EM, Hagberg M. Analyzing Musculoskeletal Neck Pain, Measured As Present Pain And Periods Of Pain, With Three Different Regression Models: A Cohort Study. 432-S. 42nd Annual Meeting of the Society for Epidemiologic Research "Epidemiologists as Vectors for Transmitting Health". June 23-26. SER 2009 Los Angeles, USA.
10. Ekman A, Andersson EM, Hagberg M. Muskuloskeletal värk i nacke och övre extremiteter - Värk för närvarande, att utveckla värk och upprepade perioder med värk. Svenska Läkarsällskapets Riksstämman 2008 Göteborg, Sweden.
11. Ekman A, Andersson EM, Hagberg M. Analyzing musculoskeletal outcome measures, as present pain, developing pain and recurrent pain, with a combination of regression models. In: J Rehabil Med Suppl 46, p.88-89. 1st Asian Oceania conference of physical and rehabilitation medicin. AOCPRM 2008 Nanjing, China.
12. Lundgren Nilsson Å., Pousette A., Ekman A, Larsman P. Analysis of the Stress-Energy Questionnaire using modern test theory – part I – a comparison with classical test theory. The third international Rasch measurement conference, Perth, Western Australia, January 2008.
13. Pousette A., Lundgren Nilsson Å., Ekman A, Larsman P. Analysis of the stress-energy questionnaire using classic test theory - part II, a comparison with modern test theory. Paper presented at the Third International Rasch Measurement Conference, Perth, Western Australia, January 2008.
14. Ekman A, Hagberg M. Computer users – Not a homogenous occupational group. In B. o. Abstracts, eds. 8th International Conference on Work with Computing Systems. WWCS 2007: Stockholm: p135.
15. Hagberg M, Ekman A, Andersson A, Wigaeus Tornqvist E. Neck and arm symptoms in relation to management style, psychosocial stress and constrained work among computer users in the Swedish workforce. In: B.o. Abstracts, eds. Fourth International Scientific Conference on Prevention of Work-related Musculoskeletal Disorders. Premus 2001. ABN AMRO: Amsterdam, The Netherlands 2001: p.151.
16. Ekman A, Hagberg M, Andersson A, Wigaeus Tornqvist E. Ergonomic and psychosocial exposures among computer users in the Swedish workforce. In: Hagberg M, et al., eds. X2001-Exposure Assessment in Epidemiology and Practice. National Institute of Working Life, Arbete och Hälsa: Stockholm 2001: p. 375. (Arbete och hälsa 2001:10).
17. Ekman A, Andersson A, Wigaeus Tornqvist E., Hagberg M. Könsskillnader i muskuloskeletal hälsa hos svenska datoranvändare. Svenska Läkarsällskapets Riksstämma 2000, Göteborg.