

CURRICULUM VITAE

Eva Andersson (born 1968)

Home institution:

Occupational and Environmental medicine, Institute of Medicine, Sahlgrenska Academy, Göteborg University.

Work address:

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Current position

Statistician at Occupational and environmental medicine, associate professor in epidemiology.

Academic career

1992-1996 Teacher on undergraduate courses in Statistics, at Skövde University College in Sweden

1996-2001 Doctoral student at Department of Statistics, Göteborg University, Sweden

2001 Ph D degree in Statistics at Department of Statistics, Göteborg University, Sweden

2001-2009 Research position at Statistical research unit and later at Department of Economics

2002 Teacher on undergraduate courses in Statistics at Göteborg University, Sweden

2009 Docent at Sahlgrenska Academy, Göteborg University, Sweden

Supervisor

Sara Gustavsson (Ph D 2015)

Assistant supervisor

David Bock (PhD, 2004)

Kjell Pettersson (Ph lic, 2007)

Linus Schiöler (Ph D, 2010)

Anna Ekman (Ph D, 2010)

Organiser of (and teacher on) postgraduate courses

-Regression analysis and multivariate methods (7.5 hp, Sep 2005-Dec 2007)

-Applied statistics: multivariable regression analysis – continuous response variables, 5 hp (Mars-June 2009)

-Quantitative exposure assessment (3 hp, Sep 2010-June 2011, lecturing on one occasion).

Scientific assignments

-Member of the dissertation evaluation committee for Per Näsman, 2010 (Doctorate in Infrastructure - Risk and safety) vid Center for safety research, Dep of Transport and economics, School of architecture and the built environment, KTH, Stockholm.

-Member of the dissertation evaluation committee for Per Liv, 2012 (Ph D, Department of Public Health and Clinical Medicine, Occupational and Environmental Medicine, Umeå University, Sweden).

-Member of the dissertation evaluation committee for Santosh Dahgam, 2013 (Licentiate in Medicine, Department of Medicine, Sahlgrenska Academy, Göteborg University, Sweden)

Presentations at international scientific conferences

Presentations at more than 25 international scientific conferences (15 oral)

Publication in international journals (medicine, environmental medicine)

Ohlsson, A-C, Andersson, EM, Södersten, M, Simberg, S, Claesson, S, Barregård, L (2016) Voice disorders in teacher students - a prospective study and a randomized controlled trial. *Journal of Voice (in press)*

Stockfelt, L., Andersson, EM, Molnár, P., Rosengren, A., Wilhelmsen, L., Sallsten, G., Barregård, L (2015) Long term effects of residential NOx exposure on total and cause-specific mortality and incidence of myocardial infarction in a Swedish cohort. *Environmental Research* 142, 197-206.

Axelsson, G., Andersson, E. M., Barregård, L (2015) Lung cancer risk from radon exposure in dwellings in Sweden: how many cases can be prevented if radon levels are lowered? *Cancer Causes & Control* 26(4) 541-547. doi:10.1007/s10552-015-0531-6

Lundgren, P., A. Kistner, E. Andersson, I. Hansen Pupp, G. Holmström, D. Ley, A. Niklasson, L. Smith, C. Wu, A. Hellström and C. Löfqvist (2014). Low Birth Weight Is a Risk Factor for Severe Retinopathy of Prematurity Depending on Gestational Age. *Plos ONE* 9(10): e109460.

Wichmann, J., K. Sjöberg, L. Tang, M. Haeger-Eugensson, A. Rosengren, E. Andersson, L. Barregård and G. Sallsten (2014). The effect of secondary inorganic aerosols, soot and the geographical origin of air mass on acute myocardial infarction hospitalisations in Gothenburg, Sweden during 1985–2010: a case-crossover study. *Environmental Health* 13:61.

Gustavsson, S., Fagerberg, B, Sallsten G and Andersson, E (2014). Regression Models for Log-Normal Data: Comparing Different Methods for Quantifying the Association between Abdominal Adiposity and Biomarkers of Inflammation and Insulin Resistance. *Int. J. Environ. Res. Public Health* 11: 3521-3539.

Johannesson, S., Andersson, E, Stockfelt, L, Barregård, L and Sallsten, G (2014). Urban air pollution and effects on biomarkers of systemic inflammation and coagulation: a panel study in healthy adults. *Inhalation Toxicology* 26(2): 84-94.

Hagenbjörk Gustafsson, A., A. Tornevi, E. M. Andersson, S. Johannesson, T. Bellander, A.-S. Merritt, H. Tinnerberg, H. Westberg, B. Forsberg and G. Sallsten (2014). Determinants of personal exposure to some carcinogenic substances and nitrogen dioxide among the general population in five Swedish cities. *Journal of Exposure Science and Environmental Epidemiology* 24: 437-443.

Axelsson, G, Stockfelt, L, Andersson, E, Gidlof-Gunnarsson, A, Sallsten, G and Barregård, L. (2013) Annoyance and Worry in a Petrochemical Industrial Area—Prevalence, Time Trends and Risk Indicators. *Int. J. Environ. Res. Public Health* 10, 1418-1438; doi:10.3390/ijerph10041418.

Liljendahl TS, Blomqvist A, Andersson EM, Barregård L, Segerbäck D (2013). Urinary levels of thymine dimer as a biomarker of exposure to ultraviolet radiation in humans during outdoor activities in the summer. *Mutagenesis*, 28 (3) pp. 249–256, doi:10.1093/mutage/ges077.

Claesson, M., Andersson, E. M., Wallin, M., Wastensson, G., Wennberg, A-M., Paoli, J., Gonzalez, H. (2012) Incidence of cutaneous melanoma in Western Sweden, 1970–2007, *Melanoma Research* 22:392–398.

Ohlsson, A-C., Andersson, E. M., Sodersten, M., Simberg, S., Barregård, L. (2012) Prevalence of voice symptoms and risk factors in teacher students. *Journal of Voice*, 26 (5) pp. 629-634

- Andersson, E.M., Paoli, J. and Wastensson, G. (2011) Incidence of cutaneous squamous cell carcinoma in coastal and inland areas of Western Sweden, *Cancer Epidemiology*, **35** (6) e69-e74. DOI: 10.1016/j.canep.2011.05.006
- Lillienberg, L., Andersson, E. M., Järholm, B. and Torén, K. (2010) Respiratory Symptoms and Exposure-Response Relations in Workers exposed to Metalworking Fluid Aerosols, *Annals of Occupational Hygiene*, **54** (4) 403-411.
- Grimby-Ekman, A, Andersson, E. M., Hagberg, M. (2009) Analyzing musculoskeletal neck pain, measured as present pain and periods of pain, with three different regression models: a cohort study. *BMC Musculoskeletal Disorders*, 10:73 (19 June 2009, 11 pages).
- Almasri, A., Andersson, E M, Barregard, L (2009) A study of residential radon in Sweden using multilevel analysis. *Health Physics*, **96** (4), 442-449
- Löfqvist, C., Hansen-Pupp, I., Andersson, E., Holm, K., Smith, L. E. H., Ley, D., Hellström, A. (2009) Validation of a new ROP screening method monitoring longitudinal postnatal weight and IGF-I. *Archives of Ophthalmology*, **127**(5), 622-627
- Hellström, A., Hård, A-L, Engström, E., Niklasson, A., Andersson, E., Smith, L., Löfqvist, C. (2009) Early weight gain predicts retinopathy in preterm infants – A new simple and efficient approach to screen. *Pediatrics*, **123**;e638-e645; originally published online Mar 16, 2009; DOI: 10.1542/peds.2008-2697
- Bergemalm-Rynell, K, Strandberg, B, Andersson, E, and Sällsten, G (2008) Laboratory and field evaluation of a diffusive sampler for measuring halogenated anesthetic compounds. *Journal of Environmental monitoring*, **10**, 1172-1178.
- Andersson, E., Kühlmann-Berenzon, S., Linde, A., Schiöler, L, Rubinova, S. and Frisé, M. (2008) Predictions by early indicators of the time and height of yearly influenza outbreaks in Sweden. *Scandinavian Journal of Public Health*, **36**, 475-482.
- Öhrström, E., Barregård, L., Andersson, E., Skånberg, A., Svensson, H. and Ångerheim, P. (2007) Annoyance due to single and combined sound exposure from railway and road traffic. *J. Acoust. Soc. Am.* **122** (5) 2642-2652.
- Löfqvist, C., Andersson, E., Sigurdsson, J., Engström, E., Hård, A-L, Niklasson, A., Smith, L.E.H., Hellström, A. (2006) Longitudinal Postnatal Weight and Insulin-like Growth Factor I Measurements in the Prediction of Retinopathy of Prematurity. *Archives of Ophthalmology*, **124**:1711-1718.
- Löfqvist, C., Andersson, E., Gelander, L., Rosberg, S., Hulthen, L., Blum, W. F., Albertsson-Wikland, K. (2005) Reference values for Insulin-Like Growth Factor-Binding Protein-3 (IGFBP-3) and the Ratio of Insulin-Like Growth Factor-I to IGFBP-3 throughout Childhood and Adolescence. *Journal of Clinical Endocrinology & Metabolism*, **90**, (3), 1420-1427
- Löfqvist, C., Andersson, E., Gelander, L., Rosberg, S., Blum, W.F., Albertsson-Wikland, K. (2001) Reference values for IGF-I throughout childhood and adolescence: A model that accounts simultaneously for the effect of gender, age and puberty. *Journal of Clinical Endocrinology & Metabolism*, **86**, (12), 5870-5876

Publication in international journals (statistics)

- Frisén, M., Andersson, E. and Schiöler, L. (2011) Sufficient reduction in multivariate surveillance. *Communications in Statistics – Theory and Methods*, **40**, 1821-1838.
- Frisén, M., Andersson, E. and Schiöler, L. (2010) Evaluation of Multivariate Surveillance. *Journal of Applied Statistics*, **37** (12), 2089-2100.
- Frisén, M., Andersson, E., Pettersson, K. (2010) Semiparametric estimation of outbreak regression. *Statistics*, **44** (2), 107-117.
- Andersson (2009), Discussion on “Optimal Sequential Surveillance for Finance, Public Health and Other Areas” by Marianne Frisé. *Sequential analysis*, **28** (3) 347-351.
- Frisén, M. and Andersson, E. (2009) Semiparametric Surveillance of Monotonic Changes. *Sequential Analysis*, **28**, 434-454.
- Andersson, E (2009) Hotelling’s T2 Method in Multivariate On-Line Surveillance. On the Delay of an Alarm. *Communications in statistics-theory and methods*, **38**, 2625-2633.
- Andersson, E (2009) Effect of dependency in systems for multivariate surveillance. *Communications in statistics - simulation and computation*, **38** (3) 454-472.
- M. Frisé, E. Andersson and L. Schiöler (2009) Robust outbreak surveillance of epidemics in Sweden. *Statistics in Medicine*, **28**, 476-493.
- Bock, D., Andersson, E. and Frisé, M. (2008) Statistical Surveillance of Epidemics: Peak Detection of Influenza in Sweden. *Biometrical Journal*, **50**, (1), 71-85.
- Andersson, E., Bock, D. and Frisé, M. (2008) Modeling influenza incidence for the purpose of on-line monitoring. *Statistical methods in medical research*, **17**, 421-438.
- Andersson, E., Bock, D. and Frisé, M. (2006) Some statistical aspects on methods for detection of turning points in business cycles. *Journal of Applied Statistics* **33**, pp. 257-278.
- Andersson, E. (2006) Robust On-line Turning Point Detection. The Influence of Turning Point Characteristics. *Frontiers in Statistical Quality Control* 8. Eds. Lenz, H.-J. and Wilrich, P.-TH., pp. 223-248.
- Andersson, E (2005) On-line detection of turning points using non-parametric surveillance: The effect of the growth after the turn. *Statistics and Probability letters*, **73**, pp. 433-439.
- Andersson, E., Bock, D. and Frisé, M. (2005) Statistical surveillance of cyclical processes with application to turns in business cycles. *Journal of Forecasting* **24**, 465-490.
- Andersson, E., Bock, D. & Frisé, M. (2004) Detection of turning points in business cycles. *Journal of Business Cycle Measurement and Analysis*, **1** (1) pp 93-108.
- Andersson, E. (2004) The impact of intensity in surveillance of cyclical processes. *Communications in Statistics: Simulation and Computation*, **33** (4) pp. 889-913.
- Andersson, E. (2004) Monitoring system for detecting start and declines of influenza epidemics. *MMWR supplement (Morbidity and mortality weekly report)* **53**, pp. 229.
- Andersson, E. (2002) Monitoring cyclical processes - a nonparametric approach. *Journal of Applied Statistics*, **29**, 973-990.

Book section

- Andersson, E, Bock, D, Frisé, M (2007) The relation between statistical surveillance and technical analysis in finance. *Financial surveillance*, ed M Frisé, Wiley (ISBN: 978-0-470-06188-6).

Grants (main applicant)

Source: The bank of Sweden Tercentenary Foundation (Riksbankens jubileumsfond)

Title: Using statistical surveillance to construct a system for the quick and safe detection of turning point in cyclical processes

Year: 2003

Sum: 1.62 MSEK

Source: West Sweden chamber of commerce and industry (Stiftelsen för ekonomisk forskning i Västsverige, Västsvenska handelskammaren)

Title: Post doctoral research on the analysis of economic cycles

Year: 2001

Sum: 1 MSEK