

Emil Rehnberg

CONTACT INFORMATION	Sköntorpsvägen 102 12053 Årsta Sverige	<i>Mobile:</i> +46-722333135 <i>E-mail:</i> emil.rehnberg@gmail.com
CITIZENSHIP	Swedish and Finnish	
EDUCATION	Stockholm University , Stockholm, SWEDEN	
	Magister Scientae, Mathematical Statistics	September 2005 to May 2009
	<ul style="list-style-type: none">• Thesis Topic: <i>Evaluation of a multipoint method for imputing genotypes using HapMap III</i>• Supervisors: Juni Palmgren Keith Humphreys Monica Leu• Area of Study: Biostatistics (genetics)	
PROFESSIONAL / ACADEMIC EXPERIENCE	ApoEx AB , Stockholm, Sweden	
	<i>System Developer</i>	October 2013 to June 2014
	<ul style="list-style-type: none">• System Development• Technical helpdesk• Ad-hoc analysis, scripting	
	Division of Epigenomics National Cancer Centre , Tsukiji, Tokyo, Japan	
	<i>Biostatistician</i>	February 2012 to May 2013
	<ul style="list-style-type: none">• Statistical consultant / informatician for researchers (Geneticists, Medical doctors).• Researcher• Bioinformatician	
	Department of Medical Epidemiology and Biostatistics Karolinska Institutet , Solna, Stockholm, Sweden	
	<i>Biostatistician</i>	December 2009 to January 2012
	<ul style="list-style-type: none">• Statistical consultant for multiple research projects.• Statistical consultant for PhD-students. Project planning, analysis, data management, methods.• Teaching assistant in biostatistic courses.	
	<i>Research Assistant</i>	June 2009 to December 2009
	Collaborators: Juni Palmgren, Keith Humphreys and Monica Leu	
	<ul style="list-style-type: none">• Imputation of genotypes for NordicDB<ul style="list-style-type: none">• Responsible for imputation of genotype data, genome-wide for NordicDB, which is a nordic database for genome-wide genetic information from controls (genotypes and allele frequencies).• Paper: NordicDB: a Nordic pool and portal for genome-wide control data, <i>European Journal of Human Genetics</i> , (28 July 2010)	
	Matteakuten , Stockholm, Sweden	
	<i>Math teacher</i>	September 2007 to January 2008
	<ul style="list-style-type: none">• Employed as a math teacher at upper secondary school level. (As extra work during university studies)	

SUBMITTED JOURNAL PUBLICATIONS	<p>Kim JG et al. Comprehensive DNA methylation and extensive mutation analyses reveal an association between the CpG island methylator phenotype and oncogenic mutations in gastric cancers. <i>Cancer Letters</i> 2012 Nov 27</p> <p>Scott RA et al. Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. <i>Nat Genet.</i> 2012 Aug 12</p> <p>DIAGRAM consortium Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. <i>Nat Genet.</i> 2012 Aug 12</p> <p>Manning AK et al. A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. <i>Nat Genet.</i> 2012 May 13</p> <p>Stolk L et al. Meta-analyses identify 13 loci associated with age at menopause and highlight DNA repair and immune pathways. <i>Nat Genet.</i> 2012 Jan 22</p> <p>Smedby KE et. al. GWAS of Follicular Lymphoma Reveals Allelic Heterogeneity at 6p21.32 and Suggests Shared Genetic Susceptibility with Diffuse Large B-cell Lymphoma. <i>PLoS Genetics</i> 2011 April.</p> <p>Monica Leu, Keith Humphreys, Ida Surakka, Emil Rehnberg, .. Juni Palmgren, Samuli Ripatti. NordicDB: A Nordic pool and portal for genome-wide control data. <i>European Journal of Human Genetics.</i> 2010 December.</p> <p>Emil Rehnberg. Evaluation of a multipoint method for imputing genotypes using HapMap III. Masters thesis, Karolinska Institutet, Department of Medical Epidemiology and Biostatistics, 2009.</p>
TEACHING EXPERIENCE	<p>Department of Medical Epidemiology and Biostatistics, Solna, Stockholm, Sweden</p> <p><i>Teaching Assistant</i> December 2009 to May 2011</p> <ul style="list-style-type: none"> • Master's Programme in Biomedicine, Biostatistics course <ul style="list-style-type: none"> • Teaching assistant for pen & paper exercises and computer labs. Descriptive, univariate, multivariate analysis, logistic regression. • Bachelor's Programme in Biomedicine, Biostatistics course <ul style="list-style-type: none"> • R and R-commander introduction lecture. • Teaching assistant for pen & paper exercises and computer labs. • Biostatistics for Molecular Oncology course. <ul style="list-style-type: none"> • Statistical consulting for group discussions. Descriptive stats and survival analysis in R. • Teaching assistant for pen & paper exercises and computer labs.
PROFESSIONAL ACTIVITIES	<p><i>The Swedish Society for Medical Statistics - 2011</i></p> <ul style="list-style-type: none"> • Board member • Website manager
EXPERTISE	<p><i>Mathematics:</i></p> <ul style="list-style-type: none"> • Applied mathematics, linear algebra, multivariate analysis <p><i>Statistics/Biostatistics:</i></p> <ul style="list-style-type: none"> • Epidemiology, descriptive statistics, multivariate analysis, analysis of categorical data, stochastic processes, probability theory, survival analysis, prediction, principal component analysis, hierarchical clustering, supervised classification, motif analysis.

SOFTWARE SKILLS	<p><i>Programming:</i></p> <ul style="list-style-type: none"> • Intermediate knowledge: Ruby, Ruby on Rails, R, SAS, shell scripting, CoffeeScript, JavaScript • Basic knowledge: Meteor, HTML, Haml, parallel computing. • Exposure to: SQL, MongoDB, Pascal, Scheme, Python, C#, Fortran, C, emacs lisp <p><i>Productivity Applications:</i></p> <ul style="list-style-type: none"> • T_EX, Vim, git, UNIX tools such as: awk, sed, tmux, screen, etc. <p><i>Operating systems:</i></p> <ul style="list-style-type: none"> • Mac OS X, Ubuntu and other UNIX variants.
COURSES	<p><i>Workshops / Lectures</i></p> <ul style="list-style-type: none"> • RegStat 2011 - Extensions to Epidemiological Designs in Register-Based Research. • ENGAGE IT-Course and Statistical Workshop: Tools for data analysis and management in complex traits genetic studies. • Age Period-Cohort Modelling. • Essentials of descriptive cancer epidemiology. <p><i>Courses</i></p> <ul style="list-style-type: none"> • PDC Summer School - Introduction to High-Performance Computing. • Epidemiological theory in a statistical framework.
LANGUAGE SKILLS	Swedish, English, Japanese (elementary)