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Behnaz Pirzamanbein

Birth: 22nd march 1985

Education

- **PhD in mathematical statistics**, 2012-2016, Lund University, Lund, Sweden
- **Master in mathematical statistics**, 2009-2012, Lund university, Lund, Sweden
- **Master in mathematics and modeling**, 2008-2011, Linnaeus university, Växjö, Sweden

Award/honors

The paper “Modelling Spatial Compositional Data: Reconstructions of past land cover and uncertainties”, <http://arxiv.org/abs/1511.06417> ,

- was awarded for outstanding Bayesian research applied to climate science in the Section on Bayesian Statistical Science (SBSS), and
- recognized with an Honorary Mention in the Section on Statistics and the Environment (ENVR),

in the student paper competition at the joint statistical meeting, American Statistical Association (ASA), 2016.

Accomplished Papers

- **Analysing the sensitivity of pollen based land cover maps to different auxiliary variables**
Behnaz Pirzamanbein, Anneli Poska, Johan Lindström
To be submitted to Climate of Past
- **Reconstruction of past Human Land Use from Pollen data and Anthropogenic Land Cover Changes Scenarios**
Behnaz Pirzamanbein, Johan Lindström
To be submitted to Environmetrics
- **Modelling Spatial Compositional Data: Reconstructions of past land cover and uncertainties**, <http://arxiv.org/abs/1511.06417>
Behnaz Pirzamanbein, Johan Lindström, Anneli Poska, Marie-José Gaillard, submitted.
- **Creating spatially continuous maps of past land cover from point estimates: A new statistical approach applied to pollen data**,
Pirzamanbein B, Lindström J, Poska A, Sugita S, Trondman AK, Fyfe R, Mazier F, Nielsen AB, Kaplan JO, Bjune AE, Birks HJB, Giesecke T, Kangur M, Latałowa M, Marquer L, Smith B, Gaillard MJ, Paper published in Ecological Complexity, <http://dx.doi.org/10.1016/j.ecocom.2014.09.005>
- **Local Capacities and Health: The importance of Transportation, Communication, Market Sophistication, and knowledgeable labor**,
Ala Pazirandeh & Behnaz Pirzamanbein, Paper in NOFOMA Conference, 2011

PhD & Master thesis

- **Reconstruction of Past European Land Cover Based on Fossil Pollen Data: Gaussian Markov Random Field Models for Compositional Data**
PhD thesis
Behnaz Pirzamanbein, Lund university, 2012-2016

**Presentation and
Conference talk**

- **A Fully Automated Segmentation of Knee Bones and Cartilage Using Shape Context and Active Shape Models,**
work on the grand challenge of medical images MRI, Ski10.org.
Behnaz Pirzamanbein, Prof. Fredrik kahl, Petter Strandmark, Johannes Ulén, Lund Univeristy, 2011-12
- **Modulus of continuity and its application for classifying the smoothness of images,**
Behnaz Pirzamanbein, Prof. Irina Asekritova, Linnaeus University, 2010-11
- **Joint Statistical Meeting (JSM2016)**
Chicago, USA July 31, 2015
- **International Society for Bayesian Analysis (ISBA2016)**
June 13, 2016, Sardinia, Italy
- **European Geosciences Union General Assembly 2016 (EGU2016)**
April 17 2016, Vienna, Austria
- **Joint Statistical Meeting (JSM2015)**
August 12, 2015, Seattle, USA
- **Bayes@Lund 2015**
February 10 , 2015, Lund, Sweden

Research Schools

- **ClimBEco, Climate, Biodiversity and Ecosystem services in a changing world**
August 2012 - June 2014, Sweden, A two-year graduate research school that promotes young scientists to engage in interdisciplinary research,
<http://www.cec.lu.se/climbeco-graduate-research-school>
- **Pan-American Advanced Study Institute on Spatio-Temporal statistics (PASI 2014)**
June 16-26, 2014, Búzios, RJ, Brazil, Covers a broad range of theoretical and applied areas of spatial and spatio-temporal statistics, with emphasis on climate, air pollution, and ecology,
http://www.stat.washington.edu/peter/PASI/PASI_2014.html

Research Group

- **MERGE, ModELLing the Regional and Global Earth System,**
2012- ... , Sweden
A strategic research area on climate modelling,
<http://www.cec.lu.se/research/merge>

**Teaching
experience/assistant**

- Linear and Logistic Regression, VT2013-14-15-16
- Stationary Stochastic Processes, VT2013-HT2013-14
- Probability and Risk Analysis, HT2014-15
- Monte Carlo and Empirical Methods (MCMC) for Statistical Inference, VT12
- Spatial Statistics with Image Analysis, HT2012-13-15

Interests and activities

- Professional badminton player (Badminton World Federation ID: 14220)
- Practicing wooden art (Marquetry)

Other achievement

- Sweden International Badminton player since 2013
- Number 1 Swedish rank ladies single in Rio Olympics qualification ranking list (189 in 20160131)
- Winner of all Swedish badminton divisions (1, 2, 3 and 4) as head coach of LUGI Badminton 2013/14
- Winner of qualification for Elite and division 1 as player for LUGI Badminton club 2013/14
- Qualified and Participated in world championship, Spain, 2006
- Participated in Asian games, Qatar, 2006
- Winner of more than 10 international tournaments.