

CV – Irena Stefaniak

Nationality	Polish / Danish (Citizenship since December 2016)
Year of Birth	1981
Degrees	Civil Engineer / Technical University in Lyngby, Department of Mathematics and Computer Science; Master / University of Wrocław (Poland), Department of Mathematics in Economy and Insurance;
Position	Consultant;
Start	2013 (pre-job with wage subsidy: 2010-2012);

Resume

During master degree working as a Professor Assistant at DTU and teaching students the following courses: Statistical Process Control, Time Series Analysis and Statistical Design and Experiment (focusing on using SAS Jump program to solve statistical problems and answer given homework-questions);
After graduation - started job with wage subsidy in Centre for Regional- and Tourism Research and CEPOS (Centre for Political Studies). The main task was to be familiar with the database and data system used for all projects, working with SAS program and modelling migrations using Negative Binomial Analysis.

Currently employed in CRT as a Consultant, supporting and maintaining projects technically by using SAS program, ALFRED presentation system, as well as transforming CRT's economic regional model into GAMS program.

Education

Master of Science in Engineering, Mathematical Modelling and Computation Department (2.5 years at DTU – Technical University of Denmark; Lyngby);
Actuarial Mathematics (6 months as an Exchange Erasmus Student; University of Copenhagen).
Master of Mathematics in Economy and Insurance (5 years at Wrocław University; Poland);

Language	Speaking	Reading	Writing
Polish	X	X	X
Danish	X	X	X
English (CAE)	X	X	X

Publications, Articles, Reports

Madsen, B., Stefaniak, I., Clausen, J., Bentsen, O., Mitze, T.F., Schmidt, T.D.: *Can Policies Reverse Rural Downturn in Denmark? A Demographic-Economic Model for Policies Related to Event-Based Migration.*

Madsen, B., Stefaniak, I., Clausen, J., Bentsen, O., Mitze, T.F., Schmidt, T.D.: *An Event-Based Approach to Identification of the Determinants for Internal Migration over the Life-Cycle in Denmark.*

Rong-Gang Cong, Irena Stefaniak, Bjarne Madsen, Tommy Galgaard, Jørgen Gejgård Jensen, Doan Nainggolan, Mette Termansen, (2017): *Where to implement local biotech innovations? A framework for multi-scale socio-economic and environmental impact assessment Green Bio-.* (Paper in Journal: "ELSEVIER") Department of Environmental Science, Aarhus

University, Roskilde, Denmark, 2017.

Maniche, J., Nørgaard Viemose, J., Topsø Larsen, K. and Stefaniak, I. (2017): *Succesfulde produktionsvirksomheder i landdistrikter – Arbejdskraft og jobskabelse*. Center for Regional- og Turismeforskning (CRT), LB Analyse, Erhvervsstyresen, Danmark, 2016.

Madsen, B., Stefaniak, I., Clausen, J. and Zhang, J. (2015): *Accounting the finer structure of the local economies - Case in Denmark*. International Input-Output Conference in Mexico, 22-26. juni 2015.

Zhang, J., Madsen, B. and Stefaniak, I. (2015): *Regional satellite accounts for health economy – from health expenditure to geography and demography - Case of Denmark*, International Input-Output Conference in Mexico, 22-26 June, 2015.

Madsen B, Stefaniak I og Hedetoft A med Lyngby Sørensen B, Plauborg F, Duus Børgesen C og Toft Kristensen I (2014): *Behov for vand i Region Midtjylland. Udvikling i befolkning, indkomster og arbejdspladser*. GEUS (De Nationale Geologiske Undersøgelser for Danmark og Grønland), Institut for Agroøkologi, Aarhus Universitet. Nexø: Center for Regional- og Turismeforskning.

Hedetoft A, Stefaniak I (2014), *Ungdomsuddannelser med fokus på yderkommuner*. Analysen er medfinansieret fra Landdistriktspuljen, Ministeriet for by, bolig og landdistrikter. Nexø: Center for Regional- og Turismeforskning.

Anders Hedetoft, Irena Stefaniak (2014) *Bygge- og anlægsbranchen på Bornholm*, Center for Regional og Turisme Forskning, Bornholm.

Bjarne Madsen & Irena Stefaniak (2013) *Event based demography - Experiments with an integrated interregional economic and event-based demographic model for Denmark* Paper presented to the 51th ERSA Congress 2013 in Palermo 27-31 August 2013, Italy

Bas Straatman, Britta Boyd, Peter Rathje, Christian Eriksen, Diana Mangalagiu, Bjarne Madsen, Irena Stefaniak, Morten Jensen, Steen Rasmussen (2012) *The Carbon City Index: A Science based, regional input-output analysis of carbon emissions*, submitted for...

Bjarne Madsen, Jeppe Madsen, Irena Stefaniak (2012), *"South Scandinavian Cross Border Migration. Does the fixed Øresund Link create a real difference?"*, CRT.

Irena Stefaniak, Murat Kulahci (2009), *"Multivariate Statistical Process Control Applications for Auto-correlated Data"*, Master's Thesis; Lyngby. (<http://etd.dtu.dk/thesis/253804/>)

Experience

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|------------|---|
| 2016 - now | Consultant in Centre for Regional- and Tourism Research (CRT). |
| 2013-2016 | Statistical and Research Assistant in Centre for Regional- and Tourism Research (CRT); SAS – basis programming, ALFRED system; |
| 2010-2012 | Statistical Assistant in Centre for Regional- and Tourism Research (CRT), and CEPOS (Centre for Political Studies); Job with wage subsidy. Statistical Modelling of Danish migrations, Danish-Swedish migration and Danish job- |

migration with Negative Binomial Model (SAS program);

2009-2010 Statistical Assistant at DTU, Lyngby;

April 1999 Supervision of Production in Przychodnia Inwalidow "Przyszosc" in Wielun; reporting decisions and controls of delivery, products and working environment; controlling of raw product, accessories and fabrics; controlling quality of the work and finished products; reporting mistakes and errors before and after production (Quality Control); Poland.

Others

Programs SAS, GAMS, SAS Jump, MATLAB, R, S-plus, Latex, ALFRED, Microsoft Package;

Courses CAE;

Dansk Basis Kurser (Studieskolen);
FVU(Forberedende Voksenundervisning) kurser – bestået 2, 3 og 4 trin;
Bestået Statsborgersbabsprøven (dec. 2014);

SAS Programming 1: Essentials (Startkursus)
Databehandling og Rapportering med SAS kode (January, 2015);

SAS Programming 2: Data Manipulation Techniques (June, 2015);

Statistics 1: Introduction to ANOVA, Regression and Logistic Regression (November 2015);

Agriculture, Economics and Nature course (Coursera.org, November-December 2016) – 7-week course with written exam (answered 57 / 60, received Certificate);

Driving License B;

Hobby Sport and Nutrition Advisor; Ecology, Farming, Natural and Biodynamic Agriculture;
Nutrition and GMO in North America; Member of Coalition "Polska wolna od GMO" (2012-..., Poland GMO-free; Jadwiga Łopata, Julian Rose);
Running; Biking; in-line Skating; Strength & Conditional Training, meditation, ...;
Hand Craft, Sewing and Design (Technical Secondary School of Clothing – Wielun, Poland; Certificate);
Photography, Classical Music; ATB; Paintings (especially Countrysides on canvas) and good books (hobby books), ...