

# CURRICULUM VITAE

DR MACIEJ BERĘSEWICZ

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## CONTACT

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## PERSONAL INFORMATION

✉ Date of Birth: 26.06.1987  
✉ Nationality: Polish

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## PROFESSIONAL EXPERIENCE

- 12.2016–now **Centre for Small Area Estimation, Statistical Office in Poznan** – senior specialist, part-time; Research and application of small area estimation in official statistics, programming in R
- 09.2016–now **Department of Statistics, Faculty of Informatics and Electronic Economy, Poznan University of Economics** – Assistant Professor.
- 09.2013–12.2016 **Centre for Small Area Estimation, Statistical Office in Poznan** – specialist, part-time; Research and application of small area estimation in official statistics, programming in R.
- 09.2011–06.2016 **Department of Statistics, Faculty of Informatics and Electronic Economy, Poznan University of Economics** – Ph.D. studies

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## EDUCATION

- ✉ Ph.D. degree
- 09.2011–06.2016 **Department of Statistics, Faculty of Informatics and Electronic Economy, Poznan University of Economics** – Doctoral Programme – Dissertation title *Internet data sources for real estate market statistics*, defended with distinction
- ✉ Master's degree
- 10.2011–06.2013 **Informatics and Econometrics, Faculty of Informatics and Electronic Economy, Poznan University of Economics** – Master's studies
- 10.2009–06.2011 **Finance and Accounting, Faculty of Economics, Poznan University of Economics** – Master's studies
- ✉ Bachelor's degree

- 10.2008–06.2011 **Informatics and Econometrics, Faculty of Informatics and Electronic Economy, Poznan University of Economics** – Bachelor’s studies
- 10.2006–06.2009 **Finance and accounting, Faculty of Economics, Poznan University of Economics** – Bachelor’s studies

## PUBLICATIONS - IN ENGLISH

- NIKULIN, D. & BERESEWICZ M. (2017) Informal employment in Poland: an empirical spatial analysis. *Spatial Economic Analysis* 13(3). p. 338–355, DOI: <https://doi.org/10.1080/17421772.2018.1438648>.
- MARCHETTI S., BERESEWICZ M., SALVATI N., SZYMKOWIAK M., WAWROWSKI L. (2018) The use of a three level M-quantile model to map poverty at LAU 1 in Poland. *Journal of the Royal Statistical Society: Series A* 181(3), p. 1077–1104, DOI: <https://doi.org/10.1111/rssa.12349>.
- BERESEWICZ M. (2017) A two-step procedure to measure representativeness of the Internet data sources. *International Statistical Review* 85(3). p. 473–493, DOI: [10.1111/insr.12217](https://doi.org/10.1111/insr.12217).
- BERESEWICZ M. (2015) On representativeness of Internet data sources for real estate market in Poland. *Austrian Journal of Statistics* 44(2). p. 45–57. DOI: <http://dx.doi.org/10.17713/ajs.v44i2.79>.
- BERESEWICZ M. (2014) Estimating the size of real estate market using Internet data sources. *Folia Economica Stetiniensia* 14(2).
- BERESEWICZ M. (2013) PLS Regression using spatial weights on the example of spatial modeling support for political parties in elections 2011 to the Sejm of the Republic of Poland. *Spatial Econometrics and Regional Economics Analysis* p. 155-167.

## PUBLICATIONS - IN POLISH

- BERESEWICZ M., SZYMKOWIAK M. (2015) Big data and official statistics - hopes, achievements, challenges and risks (in Polish). *Ekonometria. Econometrics*, 2 p. 9-22.
- BERESEWICZ M. (2014) An attempt to use different distance measures in the generalized Petersen estimator (in Polish). *Taxonomy* 22 p. 186-194.
- BERESEWICZ M., KLIMANEK T. (2013) Using indirect estimation with spatial autocorrelation in dwelling price surveys (in Polish) *Taxonomy* 22 p. 281-290.
- BERESEWICZ M., SZYMKOWIAK M. (2011) Some Remarks on Weighting Methods in Marketing Surveys with Nonresponse (in Polish). *Metody pomiaru i analizy rynku usług : pomiar jakościowy : zastosowania i efektywność* p. 116-124.
- BERESEWICZ M. (2011) Application of calibration estimators in market research surveys (in Polish). *Narzędzia Analityczne w Naukach Ekonomicznych - materiały konferencyjne*, Krakow University of Economics.

## PUBLICATIONS - SUBMITTED

- BERESEWICZ M. (2018) Identification of the self-selection mechanism in Internet data sources for real estate market. Submitted to *Survey Research Methods* [JCR].
- BERESEWICZ M. (2018) Correlates of representation errors in Internet data sources for real estate market. Submitted to *Journal of Official Statistics* [JCR].

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**SCIENTIFIC RESEARCH GRANTS**

- 02.2015 - 02.2018 **NCN Preludium 2014/13/N/HS4/02999** - *The use of Internet data sources in the context of the estimation theory exemplified by the secondary real estate market in Poland*, 106 730.00 PLN (27 000 EUR).
- 11.2015 - 12.2015 **Application of new data sources (big data) in the light of small area estimation**, Visiting grant at the Faculty of Economics and Management, University of Pisa, InGRID grant realized under European Union's Seventh Framework Programme for Research, Technological Development and Demonstration (Grant Agreement No 312691).

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**PROFESSIONAL RESEARCH PROJECTS**

- 04.2017 - 09.2018 **Foreigners in the Polish regional labour market** – leading expert from Statistical Office in Poznan.
- 01.2017 - 12.2018 **Extension of the Labour Force Survey indicators of labor market and education**. Extension of the Labour Force Survey indicators of labor market and education for metropolitan areas and additional indicators at the level of provincial cities and the province with the exception of provincial cities and the development of basic aggregation of labor market sub-regions NUTS 3, along with additional sections using small area estimation.
- 10.2016 - 06.2018 **ESS.VIP ADMIN WP6: Pilots and applications**. This work package will ensure the link between theoretical developments and their implementation, which would ensure their sustainability.
- 04.2016 - 12.2018 **Integrated calibration for mixed mode censuses**, Research project, Statistical Office in Poznan.
- 04.2016 - 12.2018 **Repeated weighting for censuses**, Research project, Statistical Office in Poznan.
- 06.2016 - 09.2017 **Quality improvement of the Monthly Unemployment Rate**, EUROSTAT grant. Central Statistical Office. Activities:
- construction of small area estimation models for the estimation of the monthly unemployment rate (stage 4),
  - analysis of properties of models constructed and their quality assessment (stage 4),
  - evaluation of estimation results together with the analysis of precision of estimates (stage 4),
  - tabulation and visual presentation of results (stage 4),
  - participation in drawing up the methodological report(stage 4).
- 07.2016 - 02.2017 **Identification of methods for treating selectivity in big data sources**, ESSnet Big Data, Eurostat (Specific contract n° ESTAT / 11111.2013.001-2015.084 under framework contract n° ESTAT / 11111.2013.001-2013.254. QTM9 – Selectivity in Big-data sources). Activities:
- analysis of big data sources,
  - summary of selectivity treatment methods literature,
  - analysis and evaluation.
- 01.2015 - 12.2015 **Estimation of poverty at LAU1 level in Poland**, Statistical Office in Poznan. Report (in Polish) available at this webpage.
- 10.2014 - 12.2014 **Quality Route, KaTuMetro Research Programme**, Aalto University, Finland – visiting PhD candidate.

- 09.2013 - 03.2014 **Poverty mapping at the NUTS3 level in Poland using small area estimation**, Statistical Office in Poznan and World Bank. Report (in Polish) available at this webpage.
- 11.2013 - 04.2014 **Indirect estimation in the Urban Audit Programme**, Statistical Office in Poznan.
- 09.2013 - 02.2014 **Imputation and calibration in DG-1 business survey**, Statistical Office in Poznan.

## AWARDS

- 2017 **The I degree award for individual scientific achievements** – The Rector of Poznań University of Economics and Business
- 2017 **The II degree award for individual organizational achievements** – The Rector of Poznań University of Economics and Business
- 2016 **The second award for the best doctoral dissertation defended at Poznań University of Economics and Business** – The competition was organized by the Foundation of Poznan University of Economics and Business for the best doctoral dissertations defended at PUEB in 2015/2016 academic year.
- 2012 **Best paper of young conference participants** – *PLS Regression using spatial weights on the example of spatial modeling support for political parties in elections 2011 to the Sejm of the Republic of Poland*, II Scientific Conference: Spatial Econometrics and Regional Economic Analysis, Łódź, 4-5.05.2012.

## TEACHING

- 2018/19
- in Polish: Visualisation and reporting of statistical data, Introduction to R
  - in English: Real Estate Market Analysis, Categorical Data Analysis,
- 2017/18
- in Polish: Survey Methodology, Visualisation and reporting of statistical data, Internet surveys, Mathematical Statistics, Descriptive Statistics, Geomarketing
  - in English: Real Estate Market Analysis, Visualization and reporting of statistical data
- 2016/17
- in Polish: Survey Methodology, Visualisation and reporting of statistical data, Internet surveys, Statistics, Descriptive Statistics
  - in English: Real Estate Market Analysis
- 2014/15
- in Polish: Mathematical Statistics, Survey Methodology
- 2013/14
- in Polish: Mathematical Statistics, Descriptive Statistics
- 2012/13
- in Polish: Descriptive Statistics, Statistics
- 2011/12
- in Polish: Descriptive Statistics, Statistics

## CONFERENCES & WORKSHOPS

### Conferences attended

- 31.05-03.06.2016 European Conference on Quality in Official Statistics, Madrid, Spain  
 Beręsewicz M.: *Measuring representativeness of internet data sources through linkage with register data*; Included in Special Session on *Big Data and Official Statistics: Challenges and Opportunities*

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- 07-09.10.2015 European Establishment Statistics Workshop, Poznan, Poland  
 Beręsewicz M.: *On the calibration approach and multiple imputation in the DG-1 business survey*
- 24-28.08.2015 The Fourth Baltic-Nordic Conference on Survey Statistics - BaNoCoSS-2015, Helsinki, Finland  
 Beręsewicz M.: *Assessing selectivity and representativeness of Internet data sources for the real estate market in Poland*
- 24-28.08.2015 The Fourth Baltic-Nordic Conference on Survey Statistics - BaNoCoSS-2015, Helsinki, Finland  
 Beręsewicz M.: *A model-based approach to estimate bias in Internet data sources*
- 11-12.06.2015 Polish Scientific Conference "Poverty and social exclusion measurement at regional and local level", Poznań, Poland:  
 Wawrowski L, Beręsewicz M.: *Estimation of low work intensity ratio using Fay-Herriot model and its extensions* (presentation in Polish)
- 10-12.03.2015 NTTS Conference, Brussels, Belgium  
 Beręsewicz M.: *On estimation of Polish real estate market characteristics using Internet data sources* (poster)
- 15-17.10.2014 Poznan Academic R User Meeting, Poznań, Poland:  
 Beręsewicz M.: *Small area estimation with R* (presentation)
- 13-5.09.2014 Small area estimation, Poznań:  
 Beręsewicz M.: *Big data for small area estimation or small area estimation for big data?* (presentation)
- 02-04.06.2014 European conference on Quality in Official Statistics, Vienna, Austria:  
 Beręsewicz M.: *On representativeness and quality of Big Data for real estate market in Poland* (presentation)
- 25.06.2014 Polish Conference on Mathematics and Informatics in Economics devoted to Profesor Zbigniew Czerwiński, Poznań, Poland:  
 Beręsewicz M.: *Internet data sources in real estate market research* (poster)
- 02-04.06.2014 The First Asian ISI Satellite Meeting on Small Area Estimation, Bangkok, Thailand:  
 Beręsewicz M.: *On indirect sampling and small area estimation* (presentation)
- 11-13.09.2013 XXII Conference of The Section of Classification and Data Analysis, Karpacz, Poland;  
 Beręsewicz M.: *An attempt to use different distance measures in the generalized Petersen estimator* (presentation);
- 26.10.2012 Bioconductor European Developers' Workshop, Zurych, Switzerland:  
 Beręsewicz M.: *Geoinformation Visualisation using R and Google Maps*
- 26.10.2012 III Poznań R User Meeting, Poznań, Poland:  
 Beręsewicz M.: *How to teach R with RStudio, Knitr i R Markdown*
- 10-12.09.2012 XXI Conference of The Section of Classification and Data Analysis, Lipowy Most, Poznań:  
 Beręsewicz M., Klimanek T.: *Using indirect estimation with spatial autocorrelation in dwelling price surveys* (poster)
- 25-26.06.2012 Polish Conference on Mathematics and Informatics in Economics devoted to Profesor Zbigniew Czerwiński, Poznań, Poland:  
 Beręsewicz M.: *Selection of spatial weights selection on the example on real estate market* (presentation)
- 04-05.05.2012 II Scientific Conference: Spatial Econometrics and Regional Economic Analysis, Łódź, Poland  
 Beręsewicz M.: *PLS Regression using spatial weights on the example of spatial modeling support for political parties in elections 2011 to the Sejm of the Republic of Poland* (presentation)

## CURRICULUM VITAE - DR MACIEJ BERESEWICZ

- 15-18.05.2012 VI Polish Scientific Conference Profesora Aleksandra Zeliasia - Modelling and forecasting of socio-economics phenomenon, Zakopane, Poland:  
Beręsewicz M.,: *Geographically weighted regression in Poznań real estate market research using Internet data sources (poster)*
- 18-20.04.2012 Congress of Polish Statistical Society, Poznań:  
Beręsewicz M.,: *Internet data sources in the light of Polish census on the example of real estate market in Poznan (poster)*

### Workshops attended

- 13-5.09.2014 Small area estimation, Poznań:  
Zhang L.-C.: *Small area estimation in R*
- 16-17.04.2012 Congress of Polish Statistical Association, Poznań:  
D’Orazio M., Solari F.: *Statistical Matching techniques and small area estimation*

### Workshops conducted

- 15-17.10.2014 Data analysis with survey package, Beręsewicz M., during Poznan Academic R User Meeting, Poznań, Poland.
- 28-29.05.2012 Introduction to R – workshop for academics, Beręsewicz M., Wawrowski L..

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### PARTICIPATION IN ORGANIZATION OF CONFERENCES

- 05.10.2012 - now Co-organizer of Poznań R User Meetings in Poznań (31 meetings, 500 enrolled people), details: <http://www.meetup.com/Poznan-R-User-Group-PAZUR>
- 12.10–14.10.2016 Chairperson of the Organizing Committee of the European R Users Meeting in Poznań, [www.erum.ue.poznan.pl](http://www.erum.ue.poznan.pl)
- 15.10–17.10.2014 Chairperson of the Organizing Committee of the Polish R User Meeting in Poznań
- 19-20.04.2012 Participation in organizing Small Area Conference [www.sae2014.ue.poznan.pl](http://www.sae2014.ue.poznan.pl)
- 16-17.04.2012 Participation in organizing Congress of Polish Statistics

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### SCIENTIFIC ORGANIZATIONS

- 07.2016 - now Regular member of International Association of Survey Statisticians (ISI IASS)
- 07.2016 - now Regular member of International Association of Official Statistics (ISI IAOS)

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### LANGUAGE

- ☞ Polish – native
- ☞ English – fluent
- ☞ Italian – basic

## PROGRAMMING SKILLS

- ↻ Statistical Packages – R, SAS oraz SPSS
  - ↻ OS – OS X, Linux, Windows,
  - ↻ Programming languages – Python, C++
  - ↻ Big data – MapReduce and Hadoop, Spark
  - ↻ Other – SQL and NoSQL databases, Bash, Regular expressions, XML, XPath
  - ↻ Writing – L<sup>A</sup>T<sub>E</sub>X, MS Office.
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## HOBBIES

- ↻ statistics, statistical packages
- ↻ data visualization
- ↻ Polish rock and metal music scene
- ↻ thrillers, Scandinavian literature and series

Last update: January 22, 2019