

CURRICULUM VITAE

DR MACIEJ BERĘSEWICZ, PROF. UEP

CONTACT DETAILS

↻ City: Poznań
↻ Country: Poland
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BASIC INFO

↻ Birth date: 26.06.1987
↻ Citizenship: Polish

EMPLOYMENT

2024.01–now	Centre for the Methodology of Population Studies, Statistical Office in Poznań – Head of the Department
2021.07–now	Department of Statistics, Poznań University of Economics and Business – Associate Professor
2016.12–2023.12	Centre for Small Area Estimation, Statistical Office in Poznań – Senior Specialist
2016.09–2021.07	Department of Statistics, Poznań University of Economics and Business – Assistant Professor
2013.09–2016.12	Centre for Small Area Estimation, Statistical Office in Poznań – Specialist
2011.09–2016.06	Department of Statistics, Poznań University of Economics and Business – PhD Student

EDUCATION

↻ PhD in Economics

2011.09–2016.06	Department of Statistics, Poznań University of Economics and Business – PhD Thesis: <i>Internet data sources for real estate market statistics</i> (defended with distinction) - Supervisors: prof. dr hab. Elżbieta Gołata, dr hab. Marcin Szymkowiak, prof. UEP - Reviewers: prof. Risto Lehtonen, prof. dr hab. Mirosław Szreder
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↻ Master's Degree

2011.10–2013.06	Informatics and Econometrics, Poznań University of Economics and Business
2009.10–2011.06	Finance and Accounting, Poznań University of Economics and Business

↻ Bachelor's Degree

2008.10–2011.06	Informatics and Econometrics, Poznań University of Economics and Business
2006.10–2009.06	Finance and Accounting, Poznań University of Economics and Business

PROFESSIONAL FUNCTIONS

2018.01–now	Economics and Business Review – statistical editor
2023.09–2024.09	The Baltic-Nordic-Ukrainian Network on Survey Statistics – Chair of the Steering Committee
2022.01–2024.02	The Survey Statistician – technical editor
2022.09–2023.12	The Baltic-Nordic-Ukrainian Network on Survey Statistics – Vice-Chairman of the Steering Committee
2019.01–2022.08	The Baltic-Nordic-Ukrainian Network on Survey Statistics – Member of the Steering Committee
2019.03–2023.12	Group on the quality of the Agricultural Census 2020 and the Census 2021 at the Statistics Poland – member of the expert team at the Statistics Poland (quality team)
2017.12–2023.12	Real estate price statistics team at the Statistics Poland – member of the expert team at the Statistics Poland
2018.01–2023.09	Oeconomia Copernicana – statistical editor
2016.10–2023.06	Supervisor of the Student Research Group Estimator

PUBLICATIONS – IN ENGLISH

CHLEBICKI, P. & BERESEWICZ, M. (2025). singleRcapture: An R Package for Single-Source Capture-Recapture Models. Accepted to the *Journal of Statistical Software*.

GATSKOVA, K., PILC, M., & BERESEWICZ, M. (2024). Feeling disadvantaged? Type of employment contract and political attitudes. *Socio-Economic Review*, mwae011.

BERESEWICZ, M., CHERNIAIEV, H., MANTAJ, A., & PATER, R. (2024). Text analysis of job offers for mismatch of educational characteristics to labour market demands. *Quality & Quantity*, 58(2), 1799-1825.

BERESEWICZ, M., BIAŁKOWSKA, G., MARCINKOWSKI, K., MAŚLAK, M., OPIELA, P., PATER, R. & PAWLUKIEWICZ, K. (2021) Enhancing the Demand for Labour survey by including skills from online job advertisements using model-assisted calibration. *Survey Research Methods* 15(2), 147–167

BERESEWICZ, M., & NIKULIN, D. (2021) Estimation of the size of informal employment based on administrative records with non-ignorable selection mechanism. *Journal of the Royal Statistical Society Series C-Applied Statistics* 70(3), 667–690.

BIAŁEK, J., & BERESEWICZ, M. (2021) Scanner data in inflation measurement: From raw data to price indices. *Statistical Journal of the IAOS* 37(4), 1315–1336.

DESZCZYŃSKI, B., & BERESEWICZ, M. (2021) The maturity of relationship management and firm performance – A step toward relationship management middle-range theory. *Journal of Business Research* 135, 358–372.

WAWROWSKI, L., & BERESEWICZ, M. (2021) Small area estimates of the low work intensity indicator at voivodeship level in Poland. *Statistics in Transition* 22(2), 155–172.

BERESEWICZ, M., & PATER, R. (2021) Inferring job vacancies from online job advertisements. *Statistical Working Papers - EUROSTAT*.

BERESEWICZ M. (2019) Correlates of representation errors in Internet data sources for real estate market. *Journal of Official Statistics* 35(3), p. 509-529.

BERESEWICZ M., LEHTONEN R., REIS F., DI CONSIGLIO L. & KARLBERG M. (2019) An overview of methods for treating selectivity in big data sources. Monografia w ramach serii *Eurostat's Statistical Working Papers*. <https://ec.europa.eu/eurostat/web/products-statistical-working-papers/-/KS-TC-18-004>

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 Ł. (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 Stetinensia* 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. (2023). Ilu jest w Polsce cudzoziemców? Ujęcie statystyczne i ekonomiczne. W M. Świtoński (red.), *Migracje – historia i teraźniejszość* (s. 35–50). Polska Akademia Nauk, Oddział w Poznaniu.

GOŁATA E. & BERESEWICZ M. (2019) Przyszłość badań statystycznych wobec potrzeb społecznych i gospodarczych na przykładzie spisu ludności. W: M. Gorynia, M. Gorynia (Red.), *Ewolucja nauk ekonomicznych. Jedność a różnorodność, relacje do innych nauk, problemy klasyfikacyjne* (s. 173–194).

BERESEWICZ M., GUDASZEWSKI, G. & SZYMKOWIAK M. (2019) Estymacja liczby cudzoziemców w Polsce z wykorzystaniem metody capture-recapture *Wiadomości Statystyczne* 64 (10), 7–35

BERESEWICZ M., SZYMKOWIAK M. (2015) Big data w statystyce publicznej – nadzieje, osiągnięcia, wyzwania i zagrożenia). *Ekonometria. Econometrics*, 2 p. 9-22.

BERESEWICZ M. (2014) Próba zastosowania różnych miar odległości w uogólnionym estymatorze PETERSENA. *Taxonomy* 22 p. 186-194.

BERESEWICZ M., KLIMANEK T. (2013) Wykorzystanie estymacji pośredniej uwzględniającej korelację przestrzenną w badaniach cen mieszkań. *Taxonomy* 22 p. 281-290.

BERESEWICZ M., SZYMKOWIAK M. (2011) Kilka uwag na temat metod ważenia w badaniach marketingowych z brakami odpowiedzi. *Metody pomiaru i analizy rynku usług : pomiar jakościowy : zastosowania i efektywność* p. 116-124.

BERESEWICZ M. (2011) Aplikacja kalibracji w badaniach marketingowych. *Narzędzia Analityczne w Naukach Ekonomicznych – materiały konferencyjne*, Krakow University of Economics.

PUBLICATIONS – SUBMITTED

CHROSTOWSKI, L., CHLEBICKI, P., & BERESEWICZ, M. (2025). nonprobsvy – An R package for modern methods for non-probability surveys. arXiv preprint arXiv:2504.04255. (submitted to the Journal of Statistical Software)

STROJNY, T., & BERESEWICZ, M. (2025). BlockingPy: approximate nearest neighbours for blocking of records for entity resolution. arXiv preprint arXiv:2504.04266. (minor review at the SoftwareX journal)

BERESEWICZ, M., WYDMUCH, M., CHERNIAIEV, H., & PATER, R. (2024). Multilingual hierarchical classification of job advertisements for job vacancy statistics. arXiv preprint arXiv:2411.03779. (minor review at the Journal of Official Statistics)

BERESEWICZ, M. (2024). Quantile balanced sampling.

CHLEBICKI, P., CHROSTOWSKI, L., & BERESEWICZ, M. (2024). Data integration of non-probability and probability samples with predictive mean matching arXiv preprint arXiv:2403.13750 (in review in the *Electronic Journal of Statistics*)

BERESEWICZ, M., SZYMKOWIAK, M., & CHLEBOCKI, P. (2024). Inference for non-probability samples using the calibration approach for quantiles arXiv preprint arXiv:2403.09726 (in review in the *Survey Methodology* journal)

BERESEWICZ, M., & SZYMKOWIAK, M. (2024). A note on joint calibration estimators for totals and quantiles. arXiv preprint arXiv:2308.13281.

BERESEWICZ, M. (2024). SURVEY CALIBRATION FOR CAUSAL INFERENCE: A SIMPLE METHOD TO BALANCE COVARIATE DISTRIBUTIONS. ARXIV PREPRINT ARXIV:2310.11969.

CHLEBICKI, P. & BERESEWICZ, M. (2024). On the Nour (1982) Dual-System Estimator for Population Size (revise and resubmit in Austrian Journal of Statistics)

BERESEWICZ, M., & NIKULIN, D. (2021). COVID-19 and the gig economy in Poland. *arXiv preprint arXiv:2107.11124*.

BERESEWICZ, M., NIKULIN, D., SZYMKOWIAK, M., & WILAK, K. (2021). The gig economy in Poland: evidence based on mobile big data. *arXiv preprint arXiv:2106.12827*.

BERESEWICZ, M., CHERNIAIEV, H., & PATER, R. (2021). Estimating the number of entities with vacancies using administrative and online data. *arXiv preprint arXiv:2106.03263*.

BERESEWICZ, M., & PAWLUKIEWICZ, K. (2020) Estimation of the number of irregular foreigners in Poland using non-linear count regression models. Preprint: <https://arxiv.org/abs/1908.06731>.

SCIENTIFIC GRANTS

Principal Investigator

- 2021.07–2026.01 **NCN OPUS 27 2024/53/B/HS4/015801** - *OJALAB: Online job advertisements to study skill demand and job search patterns*, 1 338 096 PLN (co-PI) (<https://ojalab.ue.poznan.pl>)
- 2024.06-2024.09 **NAWA BEKKER BPN/BEK/2023/1/00099/U/00001** – *Inference for non-probability samples under mis-classification error* (visit at the University of Manchester, collaboration with prof. Natalie Shlomo and dr Alexandru Cernat)
- 2021.07–2026.01 **NCN OPUS 22 2020/39/B/HS4/00941** - *Towards census-like statistics for foreign-born populations – quality, data integration and estimation*, 858 270 PLN (<https://ncn-foreigners.ue.poznan.pl>)

- 2020.10-2021.08 **MNiSZ Regionalna Inicjatywa Doskonałości – Platform economy in light of big data**, 40 000 PLN.
- 2015.02–2018.02 **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 PLN.
- 2015.11–2015.12 **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).

Contractor

- 2018.01–2019.09 **MNiSW DIALOG 0127/2016** – *Method of continuous educational monitoring in the labor market at a detailed level* – dr hab. Robert Pater, prof. WSIiZ (University of Information Technology and Management in Rzeszów).
- 2019.12–2020.03 **NCN 2015/17/D/HS4/00319** - *Analysis of the determinants of labor market institutions* – dr Michał Pilc (Poznań University of Economics and Business)
- 2017.10–2018.06 **NCN 2015/19/D/HS4/01956** - *Enterprise maturity in relationship management vs. competitive advantage* – dr hab. Bartosz Deszczyński (Poznań University of Economics and Business)

SCIENTIFIC, IMPLEMENTATION, OTHER PROJECTS

- 2022.01-2023.12 **the UKR team** – Statistics Poland task team to develop statistics on residents of Ukraine with the UKR status residing in Poland in connection with the armed conflict on Ukrainian territory – project member (probabilistic record linking, deduplication, determining residence place)
- 2021.01–2021.09 **OF2-Cedefop: representativeness of OJAs** – EUROSTAT – Towards the European Web Intelligence Hub - European system for collection and analysis of online job advertisement data (WIH-OJA) – senior expert
- 2021.06–2022.06 **Using administrative records to improve the quality of the Labor Demand Survey** – Lead expert. Statistical Office in Poznań (methodological work 3.264).
- 2020.01–2020.06 **Inferring job vacancies from online job advertisements** – EUROSTAT – Specific Contract N° 000046 ESTAT N°2019.0243 under the Framework Contract 2018.0086 Supply of statistical services in statistical methodology, Lot 1: Methodological support – academic researcher
- 2017.04–2018.09 **Foreigners in the Polish regional labour market** – Lead expert. Statistical Office in Poznań.
- 2017.01–2018.12 **Extension of the Labour Force Survey indicators of labor market and education**. Statistical Office in Poznań.
- 2016.10–2018.06 **ESS.VIP ADMIN WP6: Pilots and applications**. Statistical Office in Poznań.
- 2016.04–2018.12 **Integrated calibration for mixed mode censuses**. Statistical Office in Poznań.
- 2016.04–2018.12 **Repeated weighting for censuses**. Statistical Office in Poznań.
- 2016.06–2017.09 **Quality improvement of the Monthly Unemployment Rate**, EUROSTAT grant. Statistical Office in Poznań.
- 2016.07–2017.02 **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) – lead expert.

2015.01–2015.12	Estimation of poverty at LAU1 level in Poland. Statistical Office in Poznań.
2014.10–2014.12	Quality Route, KaTuMetro Research Programme, Aalto University, Finland.
2013.09–2014.03	Poverty mapping at the NUTS3 level in Poland using small area estimation. Statistical Office in Poznań.
2013.11–2014.04	Indirect estimation in the Urban Audit Programme. Statistical Office in Poznań.
2013.09–2014.02	Imputation and calibration in DG-1 business survey. Statistical Office in Poznań.

SCHOLARSHIPS

2022	Scholarship for an outstanding young scientist (SMN/18/1173/2022)
2018	Scholarship of the Foundation for Polish Science Start 2018 (START 005.2018)

AWARDS, ACHIEVEMENTS

2022	The PUEB Rector's Award. • for original and creative scientific achievements in 2021, • for organizational and image achievements of significant importance to the University in 2021.
2020	The PUEB Rector's Award. • The 1st degree award for organizational and image achievements in 2019 of significant importance to the University. • The 2nd degree award for original and creative scientific achievements in the year 2019.
2019	The PUEB Rector's Award – For original and creative scientific achievements in 2018 (two team awards).
2017	The PUEB Rector's Award • The 1st degree award for original and creative scientific achievements in the year 2016/17 • The 2nd degree award for organizational and image achievements in 2019 of significant importance to the University.
2016	The PUEB Foundation – Second place in the competition for the best doctoral thesis defended at UEP in the academic year 2015/2016
2012	Best paper – <i>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</i> , II Scientific Conference: Spatial Econometrics and Regional Economic Analysis, Łódź, 4-5.05.2012.

ORGANIZING CONFERENCES

2012.10–2022.12	Co-organizer of R User Meetings in Poznań (31 meetings, 500 people signed up), details:: http://www.meetup.com/Poznan-R-User-Group-PAZUR
2016.10.12–14	Chairman of the organizing committee of the international conference European R Users Meeting in Poznań, www.erum.ue.poznan.pl
2014.10.15–17	Chairman of the organizing committee of the Polish R Users Rally Conference in Poznań

CURRICULUM VITAE - DR MACIEJ BERESEWICZ

2012.04.19-20	Participation in the organizing committee of the Small Area Conference www.sae2014.ue.poznan.pl
2012.04.16-17	Participation in the work of the organizing committee of the 1st Congress of Polish Statistics

REVIEWER

International	Journal of Official Statistics, Statistical Journal of the IAOS, Economic Modelling, The R Journal, Quality & Quantity, Annals of Applied Statistics, Social Science Computer Review, Economics and Business Review, Statistics in Transition, Oeconomia Copernicana.
Polish	Wiadomości Statystyczne, Studia Demograficzne.

LANGUAGES

- ↻ Polish (native)
- ↻ English (C2)

PROGRAMMING SKILLS

- ↻ Statistical packages – R, SAS oraz SPSS,
- ↻ OS – OS X, Linux, Windows,
- ↻ Programming skills – Python (pandas, numpy), Julia,
- ↻ Deep learning – darknet, tensorflow, pytorch, flux,
- ↻ Other – SQL and NoSQL databases, Bash, Regular expressions, XML, XPath,
- ↻ Typing – L^AT_EX, MS Office.

SOFTWARE

- ↻ `singleRcapture` – <https://cran.r-project.org/package=singleRcapture>,
- ↻ `jointCalib` – <https://cran.r-project.org/package=jointCalib>,
- ↻ `nonprobsvy` – <https://github.com/ncn-foreigners/nonprobsvy>,
- ↻ `blocking` – <https://github.com/ncn-foreigners/blocking>.

Updated: 07.11.2024