

# Sylwia Radomska

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## Current

- 2024 - **Assistant Professor**, Institute of Economics, Polish Academy of Sciences
  - 2022 - **Principal Investigator**, *Paid or free tertiary education? Investment in human capital and the role of family: optimal taxation approach*, NCN Preludium
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## Education

- 2018 - 2023 **PhD in Economics**, University of Warsaw, *Investment in human capital: optimal taxation approach*
  - 2016 - 2018 **MA in Advanced Analytics - Big Data**, Warsaw School of Economics, *The use of linear regression, neural networks and support vector machines to predict the value of the WIG20 index*, diploma with distinctions
  - 2012 - 2016 **BA in Mathematics**, University of Warsaw, Faculty of Mathematics, Informatics and Mechanics, *Pricing American option with Monte Carlo Methods*
  - 2012 - 2015 **BA in Quantitative Methods in Economics and Information Systems**, Warsaw School of Economics, *Optimization of leverage for selected shares of companies using the Kelly criterion*, diploma with distinctions
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## Publication

- 2024 *The European Unemployment Puzzle: implications from population aging*, with K. Makarski & J. Tyrowicz, R&R in EER
  - 2023 *Optimal Tax Theory for Investment in Human Capital and the Role of Family*, **Studia i Materiały**, 34(2), 41-57
  - 2021 *Prognozowanie indeksu WIG20 za pomocą sieci neuronowych NARX i metody SVM*, **Bank i Kredyt**, 52(5), 457-472
  - 2019 *Optimal Policy for Investment in Human Capital in the Light of Optimal Tax Theory*, **Studia i Materiały**, 30(1), 34-42
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## Work Experience and Research Activities

- 2022 - **Principal Investigator**, National Science Center  
PRELUDIUM: *Paid or free tertiary education? Investment in human capital and the role of family: optimal taxation approach*, nr 2021/41/N/HS4/02732
- 2024 - **Assistant Professor**, Institute of Economics, Polish Academy of Sciences
- 2023 - 2024 **Research Assistant**, Institute of Economics, Polish Academy of Sciences
- 2018 - **Research Assistant**, FAME|GRAPE, National Science Centre  
OPUS: *Demographic transition and change of economic structure*
- 2015 - **Young specialist**, Generali Investments TFI SA  
Market Risk Control Department
- 2014 - 2015 **Intern**, Union Investment TFI SA

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## Teaching Experience

- 2019 - 2023 Faculty of Management, Master's Degree, University of Warsaw  
Research methods in financial management, Time series analysis and forecasting

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## Summer schools, scholarships and awards

- 2024 Course on Simulated Methods of Moments, Warsaw, *prof. Russell Cooper*  
2023 Barcelona Summer School, Spain, *MegaTrends in Economics (2 courses): Demographic Change (prof. Alexander Ludwig) & Labor Market and Inequality (prof. Alexander Monge-Naranjo)*  
2023 Course on IO, Warsaw, *Extensive course on Industrial Organization (prof. Rabah Amir)*  
2020-2022 Scholarship for the best PhD students, University of Warsaw  
2020 Scholarship for the best students, Santander Universidades  
2019-2022 Scholarship for the best PhD students, project "Multicultural Management in the Era of Globalization"  
2019 Budapest School for Central Bank Studies, Hungary, *Hands-On Heterogeneous Agent Macroeconomics*
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## Conferences

- 2023 Summer Workshop on Macro & Finance, XXIV International Scientific Conference Quantitative Methods in Economics, XII National Scientific Conference named after Professor Zbigniew Czerwiński "Mathematics and computer science at the service of economics"  
2021 XXII International Scientific Conference Quantitative Methods in Economics  
2020 XXI International Scientific Conference Quantitative Methods in Economics, Managerial Empirical Research Arena, Doctoral Festival of Open Science  
2019 University of Warsaw Faculty of Management conference, GRAPE seminar
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## Languages and computer skills

Native: Polish	Proficient:	Fortran, Matlab
Proficient: English	Intermediate:	TeX / LaTeX, Stata, R, SQL
Intermediate: German	Beginner:	SAS, Python