CV

Kaszowska-Mojsa **Name:** Jagoda Kaszowska-Mojsa **Date of birth:** 28 Jan 1987 **Marital status:** Married with a child¹

Languages:

• English (advanced, TOEFL iBT)

• Spanish (advanced, DELE Superior C2)

• Polish (native speaker)

Affiliations

1) Associate at the Institute for New Economic Thinking, University of Oxford, Oxford, UK

2) Postdoctoral researcher, Institute of Economics, Polish Academy of Sciences, Warsaw, Poland

3) Lecturer in Economics, Cracow University of Economics, Cracow, Poland

4) Economic Expert, Macroprudential Research Division, Financial Stability Department, National Bank of Poland

Main research areas

Macroeconomics, quantitative methods, monetary economics, financial stability, household and consumer finance, macro-modelling, agent-based modelling, simulation methods, networks, stress-testing methods, multidimensional inequality, financial mathematics, complex systems, dynamical systems, public policy

Education

- **21.01.2019 PhD in Economics (with distinction)**, Cracow University of Economics, Cracow, Poland Thesis: "The role of systemic risk in the origin, course and effects of financial crisis in the EU countries" (in English), prepared under the supervision of Prof. Dr. Hab. Andrzej Wojtyna This thesis will be published by Routledge in 2025 (the publication and open access founded by the "Perfect Science" [Doskonała Nauka II] programme, founded by the Ministry of Education and Science).
- **18.12.2018** Public defence of the PhD thesis
- **23.12.2017** PhD thesis submitted at Cracow University of Economics, Cracow, Poland (under review during one year)
- 04.01.2017- Fulbright Junior Advanced Research Award visiting researcher at Michigan State University
- **30.06.2017** (East Lansing, MI, USA) & courses at New England Complex Systems Institute, (Boston, MA, USA)
- 01.10.2012- PhD studies at Cracow University of Economics, Poland
- **30.09.2016** The programme covered Public and Corporate Finance, Macroeconomics, Microeconomics, Econometrics, Mathematics. All of the exams that were to be taken within three years were passed in two years, after which two years were devoted to carrying out research (National Science Centre's project).

Please note that the applicant finished her PhD studies and research (NCN's project) within 4 years, but she decided to submit her PhD dissertation after carrying out additional research in the United States (Fulbright scholarship).

PhD thesis was under review from 23.12.2017 to 08.11.2018. The degree was formally awarded in January 2019 (Nomination to the Prime Minister Award in 2020; Award of the President of the Central Statistical Office for the outstanding doctoral dissertation in 2020; Award of Prof. Wacław Wilczyński for doctoral dissertation - 1st prize; Award in the name of F. Skarbek of the Polish Academy of Sciences).

01.10.2012- Master degree in Mathematics, degree specialisation: Financial Mathematics, Jagiellonian Uni-**30.09.2016** versity (Institute of Mathematics and Computer Science), Cracow, Poland.

15.09.2008- "Licenciatura en Economía", University of Alcalá, Madrid, Spain – five-year-long programme in **26.09.2011** Economics completed in three years with very good academic results.

01.10.2006- Bachelor's degree in Economic International Relations from Cracow University of Economics, **30.09.2009** Cracow, Poland. (Final grade: very good)

¹09.2020-12.2020 sick leave - high risk pregn., 01-09.2021 maternity break

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Research and professional experience (projects, grants)

- **12.2023-** Ministry of Education grant ("Doskonała Nauka II"), MONOG/SP/0110/2023/01
- 12.202510.2023- Grant of the Swedish Supervisory Agancy (Finansinspektionen) to write an expert report about the
- **12.2023** welfare effects of macroprudential policies (jointly with Prof. John Muellbauer, Oxford University)
- **10.2021-** Marie Skłodowska-Curie Individual Fellowship, H2020-MSCA-IF-2020, grant no. 101023445
- **10.2023** "Investigating new policies for financial stability that do not create inequality" (MACROPRU), funded by European Commission (Horizon 2020), **principal investigator** under the supervision of Prof. J. Doyne Farmer, implemented at the University of Oxford (Mathematical Institute/INET Oxford).

Since Lecturer, Cracow University of Economics, Cracow, Poland

- 01.10.2019 Teaching: Macroeconomics, Applied Economics/Quantitative Methods.
- Since Researcher, Institute of Economics, Polish Academy of Sciences, Warsaw, Poland
- **01.07.2018 Projects:** "Differentiation of innovation strategies of Polish manufacturing firms as an effect of changes in macroeconomic conditions" (**auxiliary investigator** under the supervision of Prof. dr hab. Anna Wziątek-Kubiak, which was funded by the National Science Centre, grant no. 2015/17/B/HS4/02742)

"Analysis of changes in prudential policies and regulation in Japan between 1990-2018" (MNiD grant for young researchers) (**principal investigator**)

- 07.01.2017- Researcher at Michigan State University, East Lansing, MI, USA
- **30.06.2017 Project:** "Systemic risk measurement and modelling" (**principal investigator** under the supervision of Prof. James M. Chen)

Since Economic Expert, Macroprudential Research Division, Financial Stability Department, 23.12.2015 National Bank of Poland, Warsaw, Poland

01.01-30.06.2017 unpaid leave at the National Bank of Poland to carry out research in the United States as a Fulbright scholar.

Projects: "Assessment of the impact of macroprudential policies on the financial system" (**principal investigator** under the supervision of Prof. dr hab. Mateusz Pipień)

"Forecasting loans' quality" (**auxiliary investigator** – data scientist in the project of Prof. SGH dr hab. Dobromił Serwa)

"Identification and synchronisation of business and financial cycles" – (**auxiliary investigator** in the project of Prof. dr hab. Mateusz Pipień and Prof. UŁ dr hab. Piotr Wdowiński)

- **07.01.2015- Internship of the Governor of the National Bank of Poland Marek Belka**, Macroprudential **23.12.2015** Research Division, Financial Stability Department, Warsaw, Poland
 - **Project:** "The use of experimental methods in systemic risk assessment" (**principal investigator**, under the supervision of Prof. dr hab. Mateusz Pipień)

21.02.2014- Researcher, Cracow University of Economics, Cracow, Poland

- **20.02.2016 Project:** "Analysis of systemic risk in the EU countries after the crisis emergence. Implications for Poland" (**principal investigator**, under the supervision of Prof. dr hab. Andrzej Wojtyna, in cooperation with Dr Juan L. Santos, funded by National Science Centre, grant no. 2013/09/N/HS4/03740)
- 2013 15.07.2013- Internship (as a PhD student) at the Polish Embassy in Madrid, Spain 15.09.2013
- 02.07.2012- Internship in Research and Public Policy Department, Santander Bank, Madrid, Spain
- **16.09.2012 Project:** "Aggregate credit and non-performing loans under different macro scenarios" (student project under supervision of Dr G. de Cadenas Santiago)
- 01.07.2010- Internship in CB Richard Ellis, Asset Management Department, Madrid, Spain

30.09.2010

Awards and funding

- 05.2023 Award of the Institute of Economics, Polish Academy of Sciences
- 11.2022 Award in the name of F. Skarbek, Polish Academy of Sciences
- 06.2022 Excellence in Artificial Intelligence Award, Perspektywy Women in Tech Summit
- 04.2022 Award for the best doctoral dissertation in name of Prof. W. Wilczyński

Kaszowska-Mojsa	CV	INE PAN & INET Oxford
02.2021	MSCA EF Individual Fellowship, European Com 101023445), University of Oxford.	mission, Horizon 2020 (grant no.
30.12.2020	The NAWA Bekker scholarship to carry out project at the University of Oxford.	
30.03.2020	Nomination for the Prime Minister Award for the best doctoral dissertation in Poland	
30.09.2020 21.03.2019-24.03.2019	The Central Statistical Office's Award for the best doctoral dissertation in statistics Western Economic Association International funding to attend an Early Career Re- searcher Workshop in Tokyo	
21.01.2019	PhD with distinction, Cracow University of Econo	omics
16.03.2016	Fulbright Junior Advanced Research Award (for I	
07.01.2015-23.12.2015	National Bank of Poland funding (Internship of th Bank)	ne Governor of the Polish Central
21.02.2014-20.02.2016	Funding from the National Science Centre (grant	no. 2013/09/N/HS4/03740)
01.10.2012-30.09.2016	Scholarship for outstanding PhD students, Cracov	v University of Economics
23.02.2012	Award for the 2nd best academic result at the De Alcalá, Madrid, Spain (15.09.2008-26.09.2011)	ept. of Economics, University of
15.09.2011-31.08.2012	Scholarship of the Centre for Financial and Mone	tary Studies
15.09.2008-30.10.2009	EMBS consortium scholarship for studies in Spai	n
01.10.2007-30.06.2009	Scholarship for outstanding students, Cracow Uni	versity of Economics
4.05.2006	European Commission award for the Socrates (award for a consortium in which the applicant p from her high school in Katowice)	1 5

Selected publications

The high quality of the researcher's publications is demonstrated by:

• metrics that exist to measure the quality of publications such as journal impact (all papers after the completion of the doctoral dissertation in 2019 have been published or accepted for publication in high impact journals, i.e. with impact factor > 2.49); all journals indexed in Scopus or Web of Science, book accepted by well-known publishers (Routledge - Taylor & Francis Group),

high altmetrics which are used to measure impact, commonly tracking media and social media mentions (very high number of new reads on ResearchGate, LinkedIn, journal webpages; high number of searches in Google)
citations in specialized Polish (including central banking journal) and international journals and books (to mention a few: in the International Monetary Fund publications such as Anderson, R., Danielsson, J., Baba Ch., Das, U., Kang. H., Segoviano, M. (2018). Macroprudential Stress Tests and Policies: Searching for Robust and Implementable Frameworks; Alla, Z., Espinoza R., Li Q, Segoviano, M. (2018), Macroprudential Stress Tests: A Reduced-Form Approach to Quantifying Systemic Risk Losses; or in Sotnik, G. (2018). The SOSIEL Platform: Knowledge Based, Cognitive and multi-agent, Biologically Inspired Cognitive Architectures, 26, Elsevier; and the Bank of International Settlements (BIS)'s Handbook on Macroprudential Policies, *forthcoming*.).

• the research was promoted by the University of Oxford, for examples see:

Assessing the COVID-19 prevention and control schemes

Jagoda Kaszowska-Mojsa - INET Oxford Associate

Win at the Women in Tech Summit

Excellence in Artificial Intelligence Award

• the research was promoted in media, for examples see:

Book after the Women in AI Summit

Science in Poland Nauka w Polsce]

and many more!

Published:

• Wiese. S., Kaszowska-Mojsa, J., Dyer, J., Moran, J., Pangallo, M., Lafond, F., Muellbauer, J., Calinescu, A., Farmer, J.D. (2024), Forecasting Macroeconomic Dynamics using a Calibrated Data-Driven Agent-based Model, INET Working Paper No. 2024-06.

• Muellbauer, J., Kaszowska-Mojsa, J. (2023). The effects of borrower-based measures. Expert Report for Finansinspektionen.

• Kaszowska-Mojsa, J., Włodarczyk, P., Szymańska, A. (2022), Immunity in the ABM-DSGE Framework for Preventing and Controlling Epidemics—Validation of Results, Entropy, 24(1), IF = 2.738, Scopus Q1

• Kaszowska-Mojsa, J. (2021), Innovation strategies of Polish manufacturing companies through the business cycle, Ekonomista, 2(21).

• Kaszowska-Mojsa, J. (2020), Włodarczyk, P., To Freeze or Not to Freeze. Epidemic Prevention and Control

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in the DSGE Model Using an Agent-Based Epidemic Component, Entropy, 22(12), IF = 2.738. Scopus Q1 • Kaszowska-Mojsa, J., Pipień, M. (2020). Macroprudential Policy in A Heterogeneous Environment - An

Application of Agent-Based Approach in Systemic Risk Modelling, Entropy, 22(2), IF = 2.738.

• Kaszowska-Mojsa, J. (2020), Innovation Strategies of Manufacturing Companies during Expansions and Slowdowns, Entrepreneurial Business and Economics Review, 8(4), IF = 3.8, Scopus Q1.

• Kaszowska, J., Santos, J.L., Pablo-Martí, F. (May 2019). Assessment of policies using the 'core' and 'periphery' macroeconomic models in the post-crisis environment, Argumenta Oeconomica 1(42), IF = 0.3.

• Pipień, M., Wdowiński, P., Kaszowska, J. (2018). Identyfikacja cech cyklu finansowego i analiza jego synchronizacji z cyklem koniunkturalnym [Identification of financial cycle and its synchronisation with the business cycle], Materiały i Studia [National Bank of Poland Working Paper], no. 332.

• Santos, J.L., Kaszowska, J. (2018). Systemic risk: cause or effect of the financial crisis in the Euro Area? The Case of Spanish Banking System Bailouts, Olsztyn Economic Journal 13 (4/2018).

• Kaszowska, J., Santos, J.L. (2017). Rola percepcji ryzyka i niepewności w ocenie ryzyka systemowego. Podejście symulacyjne ABM. [The role of risk perception and uncertainty in systemic risk assessment], Ekonomista, no. 4.

• Pablo-Martí, F., Santos, J.L., Kaszowska, J. (2015), An Agent-Based model for population dynamics for the European regions, Emergence: Complexity and Organisation Journal, 17(2).

• Santos, J.L., Mancha, T., Kaszowska, J. (2014), Microsimulación de dinámicas urbanas y estrategias de localización empresarial. [Microsimulation of urban dynamics and strategies of firms' location], UAH.

• Kaszowska, J., Santos, J.L. (2014). The role of Risk Perception in the Systemic Risk Generation and Amplification: Agent-Based Approach, Spec. Issue ACRN Journal of Finance and Risk Perspectives, 3(4).

• Santos, J.L., Kaszowska, J., Mancha, T. (2017). An Agent-Based Model to Forecast the Inflation Rate in the Eurozone, [in:] Ianole, R., Applied Behavioral Economics Research and Trends.

Reviewer to: Journal of Economic Dynamics and Control (JEDC), Journal of Economic Behavior & Organization (JEBO), Computational Statistics (COST), Entrepreneurial Business and Economics Review (EBER).

Additional professional activities

Presentations:

r resentations.	
13.02.24	The effects of borrower-based measures, Finansinspektionen (jointly with J. Muellbauer).
02.11.23	Cloud-Powered Insights: Unveiling the Effects of Macroprudential Policy in a Small Open
	Economy, University of Oxford
30.07-02.08.23	Complex System Approaches to 21st Century Challenges: Inequality, Climate Change, and
	New Technologies, Santa Fe Institute, US (co-organizer with Oxford University, World Bank,
	CENTAI)
06.2023	Presentation of the MACROPRU model, Macro-modelling group, University of Oxford
25.09.2022	Data-Driven Economic Agent-Based Models (DDEABM), Pisa, Italy (by invitation)
19-20.09.2022	4th IMA Conference on The Mathematical Challenges of Big Data, University of Oxford
23-27.08.2022	7th Lindau Meeting of the Laureates of the Sveriges Riksbank Prize in Economic Sciences,
	August 2022 (I was nominated by the European Commission; by invitation)
07-12.08.2022	Santa Fe & World Bank Workshop: How Can Complexity Economics Give More Insight Into
	Political Economy, Santa Fe Institute, USA, August 2022 (by invitation)
6-7.06.2022	Perspektywy Women in Tech Summit, Warsaw, June 2022 (I was awarded the Excellence in
	AI Award)
19.01.2022	University of Oxford ("Agent-based macro modelling")
15-18.11.2021	47th MACROMODELS 2021, in person conference, Wieliczka 2021 ("Immunity in the ABM-
	DSGE Framework for Preventing and Controlling Epidemics-Validation of Results" & "In-
	vestigating new policies for financial stability that do not create inequality")
19-21.12.2020	CFE-CMStatistics 2020, virtual conference, London 2020 ("To Freeze or Not to Freeze. Epi-
	demic Prevention and Control in the DSGE Model Using an Agent-Based Epidemic Compo-
	nent")
25-26.11.2019	National Bank of Poland Workshop on Forecasting ("Loan quality forecasting" - "by invita-
	tion")
27-28.06.2019	16th International Conference: Developments in Economic Theory and Policy, Bilbao, Spain
	("Differentiation of innovation activities of the Polish manufacturing companies during eco-
	nomic expansion and slowdown")
25-26.06.2019	2nd Workshop on Macroeconomic Research 2019, Cracow, Poland
	("Assessment of welfare effects of macroprudential policies" - "by invitation")
22.03.2019	15th International Conference, Western Economic Association International, Tokyo, Japan.
	("The Use of Macroprudential Tools and Changes in Financial Regulation in Japan since
	1990s.")

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21.03.2019	Early Career Researcher Workshop, Keio University, in Heterogeneous Environment – An Agent-Based A the presentation was supervised by Dr Jinill Kim		
28.06.2018	Symposium of Interdisciplinary Physics, Economics University of Warsaw, Warsaw, Poland ("Calibration tion")		
08.06.2018	The Society for the Study of Emerging Markets EuroConference, Łódź, Poland ("Macropru- dential policies in Heterogeneous Environment")		
25-29.06.2017	92nd Annual Conference, Western Economic Associ ("Macroprudential Policies in DSGE and ABM App		
12.04.2017	Michigan State University Seminar, East Lansing, Time" – "by invitation"	MI, USA ("Systemic Risk in Space and	
23-25.03.2017	83rd International Atlantic Economic Conference, Be Bayesian networks to risk assessment on the OTC de "Systemic risk and taxation").		
23.06.2016	Symposium of Interdisciplinary Physics, Economics of Technology, Warsaw, Poland ("Systemic risk asse		
16-17.10.2015	Conference on Complex Scenarios, Amsterdam, Net dation and validation")	herlands. ("Agent-based modelling foun-	
22-24.09.2014	FRAP 14: Finance, Risk and Accounting Perspective of risk perception in the systemic risk generation and		
19.09.2014	Summer School on Complex Networks, Lucca, Ital risk in the amplification mechanisms: ABM approac		
06-04.08.2014	Business Research Conference, Imperial College, Lo the systemic risk generation")	ndon, UK ("The role of risk perception in	
Relevant courses:			
19-23.11.2018	"Macroprudential tools", Bank of England and Joint	Vienna Institute-IMF, Vienna, Austria.	
11.06.2017- 16.06.2017	"Computer Programming and Complex Systems", "E New England Complex Systems Institute, Boston, " results of the project: "Altering agents' perception an G., Jaimes, R.)	Building Models and Mapping Networks", MA, USA. At the end, we presented the	
07-18.12.2015	"Course on External Vulnerabilities - Early Warning	Exercise", JVI-IMF, Vienna, Austria	
12-15.02.2014	"Systemic risk and Prudential Policies", Executi Barcelona.	ve Course for Central Bankers, GSE,	
Participation in c	onferences and seminars without a presentation:		
10.2021-06.2023	70 seminars at INET & Mathematical Institute, U Group meetings & INET seminars)	niversity of Oxford (mostly Complexity	
13.02.2017	Workshop on Complexity and Law (University of M Systems) (Lansing, MI, USA);		
07-09.02.2017	Academic Research Colloquium for Financial Plann	ing (Washington DC, US);	
04.06.2015	INET Oxford Martin School – Seminar on "Bayesian (University of Oxford, UK);	inference in ergodic agent-based models"	
22-23.04.2015	"Risk and Stochastic Conference" at LSE and Royal	Statistical Society (London, UK);	
2015-2018	More than 30 seminars at the National Bank of Pol Nikolov (EBC); Moessner (BIS); Prasad (Cornell U (University of Genoa); Hałaj (EBC), Russo (University	niversity); Dworczak (Stanford); Cincotti	

Teaching and mentoring activities:

My experience at Oxford demonstrates how incredibly important the role of mentors is in setting feasible goals. Hence, my current involvement in **teaching** (340 hours per year), **mentoring**: TopMinds program, in collaboration with the Fulbright Committee & Innovators500; collaborating with the Perspektywy Foundation; and holding **sessions** for high-school student (FLEX, ZDOLNI). I am **supervising** the theses of 6 students and I collaborated with S.Wiese on his PhD thesis and our join research project at Oxford University (see (6)). I have **organised sessions at conferences** (WEAI and IAES, SFI).

Organisation of conferences, promotion of scientific research:

In 2023, I was a co-organiser of the conference at Santa Fe Institute with the University of Oxford, World Bank and CENTAI with over 70 participants (inter alia from Stanford University, MIT, Cambridge University) and

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international founders and tech companies representatives (Amazon).

In 2017 I co-organised a session with Professor James M. Chen at the 83rd International Atlantic Economic Conference in Berlin, Germany ("The Cannons of Taxations").

I also attended a Fulbright Enrichment Seminar in Atlanta, GA, USA, where she participated in community service (in a public primary school) and meetings with scholars from around the world.

In 2018 I attended meetings with BA and MA/MSc students (Science Club on Macroeconomics) after being invited by Dr Jakub Janus.

I was invited to participate in a reception of K. Hassett, Chairman of Economic Advisors in US, in Warsaw, Poland by the Ambassador of the United States in Poland, G. Mosbacher in May 2019.

Additional activities:

Since 2022	Member of Scientific Committee, Polish Academy of Sciences ("Rada Naukowa INE PAN")
Since 27.08.2018	Member of the Polish-US Alumni Association (as a former Fulbright scholar)
11.05.2015-	National Bank of Poland representative to the European Systemic Risk Board Joint ASC
31.12.2016	ATC Expert Group on Interconnectedness (JEGI), EBC, Frankfurt, Germany (inc. as- sessing projects on the EMIR derivatives' market)
2015-16	Member of the International Banking Research Network (led by C. Buch (Deutsche Bun- desbank) and L. Goldberg (Federal Reserve Bank of New York)) after the meeting in Rome (25-26.06.2015)
2016-2017	Evaluated the research projects of the Brussel's think tank "Bruegel" (as a National Bank of Poland employee)
2014-2015	Member of the Complex System Society

Other relevant info

Dr Kaszowska-Mojsa has undergone many trainings in didactic and preparation of classes (including modern technologies in teaching) at the University of Oxford. She also worked with undergraduate and PhD students during their MSCA post doc fellowship at the University of Oxford.

Dr Kaszowska-Mojsa cooperates intensively with the sector of new technologies and the banking sector (e.g. ING Tech, Amazon). She even received an award for research on artificial intelligence (Perspektywy Women in Tech - Top 10 Women in AI). Her recent collaboration on the global ABM model was patented. An example of collaboration with Amazon High Performance Computing (HPC):

https://aws.amazon.com/blogs/hpc/rigor-and-flexibility-the-benefits-of-agent-based-computational-economics/

https://aws.amazon.com/blogs/hpc/how-agent-based-models-powered-by-hpc-are-enabling-large-scale-economic-simulations/

In case of any further questions, please contact: jagoda.kaszowska@inepan.waw.pl or jagoda.kaszowska@gmail.com (+48)607329613