Jiri Kukacka

Associate Professor at Charles University
Research Fellow at Czech Academy of Sciences

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Profile

Jiri Kukacka is an economist based in Prague interested in financial econometrics, behavioral finance and macro, ABM, ESG, machine learning, and the development of computational estimation methods. His work has been published in leading journals in the field, including JEDC, JEBO, and Business Ethics, and presented at over 50 international conferences and workshops.

Academic Positions

2026/03+ **Associate Professor, Charles University**
Faculty of Social Sciences, Institute of Economic Studies, Dept. of Macroeconomics and Econometrics
2026/05+ Director of Master Studies (NEF)
2013/10 – 2026/02 Assistant Professor (from 2017/09), Postdoc, Member of CDS (Ph.D. Candidate)

2023/12+ **Research Fellow, Czech Academy of Sciences**
Institute of Information Theory and Automation, Dept. of Econometrics
2013/03 – 2023/11 Research Associate (from 2021/12), Postdoc, Ph.D. Candidate

2009/02 – 06 Assistant to *M. Mejstrik*, **National Economic Council (NERV)**
Economic analyses of financial topics during the preparation of the *National Crisis Packet*

Education

2011 – 2016/04 **Ph.D.** in Economics, **Charles University**
Financial Econometrics & Behavioral Finance, Thesis: *Estimation of Financial Agent-Based Models*
Supervisor: *J. Barunik*, Opponents: *E. Gerba* (LSE), *L. Vacha* (CAS), *R. Zwinkels* (VU Amsterdam)

2012 **PhDr.** in Economics, **Charles University**

2008 – 2011 Master's degree in Economics, **Charles University**

2008 – 2009/01 **University of Bath**, United Kingdom, Erasmus

2005 – 2008 Bachelor's degree in Economic Theories, **Charles University**

Research Visits

2023 **University of Florence, Italy**
Working with *L. Bargigli*, Dept. of Economics and Business Sciences, **workshop talk**

2023 **Hamburg Institute of International Economics, Germany**
Invited by *M. Berlemann*, **seminar talk**, working with *S. Sacht*, *R. Franke*

2022 **Sant'Anna School of Advanced Studies, Pisa, Italy**
Invited by *F. Lamperti*, Institute of Economics, **seminar talk**

2016 – 2022 **University of Kiel, Germany** (5×, 7 weeks in total, **invited** visit in 2016)
Dept. of Economics, **seminar talk**, working with *S. Sacht*, *R. Franke*, *P. Zegadlo*

2016/07 – 10 **University of California, Irvine, USA**
Postdoctoral Research Stay, Dept. of Economics, working with *B. Branch*

Bibliometry

Google Scholar	Outputs: 25	Citations: 625	*h*-index: 12
Scopus	Outputs: 17	Citations: 306	*h*-index: 8
Web of Science	Outputs: 16	Citations: 256	*h*-index: 8

PUBLICATIONS

Impact Factor Journals

16. **Petrasek, L., Kukacka, J. (2025)**. US equity announcement risk premia. *Review of Quantitative Finance and Accounting*, 65, pp. 345363, . 2024: IF=2.1 (Q2), AIS=0.373.
15. **Franke, R., Kukacka, J., Sacht, S. (2025)**. Is the Hamilton regression filter really superior to Hodrick–Prescott detrending? *Macroeconomic Dynamics*, 29, e14, pp. 1-14, . 2024: IF=0.8, AIS=0.333.
14. **Sila, J., Kocenda, E., Kristoufek, L., Kukacka, J. (2024)**. Good vs. bad volatility in major cryptocurrencies: The dichotomy and drivers of connectedness. *Journal of International Financial Markets, Institutions and Money*, 96, 102062, . 2023: IF=6.1 (**D1**), AIS=0.951 (**Q1 Business, Finance**).
13. **Proano, C. R., Kukacka, J., Makarewicz, T. (2024)**. Belief-driven dynamics in a behavioral SEIRD macroeconomic model with sceptics. *Journal of Economic Behavior & Organization*, 217, pp. 312-333, . IF=2.3 (Q2), AIS=1.27 (**Q1**).
12. **Zila, E., Kukacka, J. (2023)**. Moment set selection for the SMM using simple machine learning. *Journal of Economic Behavior & Organization*, 212, pp. 366-391, , . IF=2.3 (Q2), AIS=1.085 (**Q1**).
11. **Kukacka, J., Kristoufek, L. (2023)**. Fundamental and speculative components of the cryptocurrency pricing dynamics. *Financial Innovation*, 9 (61), pp. 1-23, , . IF=6.9 (**D1 Business, Finance: 9/231**), AIS=1.003 (Q2).
10. **Kukacka, J., Sacht, S. (2023)**. Estimation of heuristic switching in behavioral macroeconomic models. *Journal of Economic Dynamics and Control*, 146, 104585, , . IF=1.9 (Q2), AIS=1.202 (**Q1**).
9. **Havlinova, A., Kukacka, J. (2023)**. Corporate social responsibility and stock prices after the financial crisis: The role of strategic CSR activities. *Journal of Business Ethics*, 182, pp. 223-242, . IF=5.9 (**D1 Ethics: 3/77; Q1 Business**), AIS=1.926 (**D1 Ethics: 5/77; Q1 Business**).
8. **Kukacka, J., Kristoufek, L. (2021)**. Does parameterization affect complexity of agent-based models? *Journal of Economic Behavior & Organization*, 192, pp. 324-356, , . IF=2.0, AIS=1.280 (Q2).
7. **Vainer, J., Kukacka, J. (2021)**. Nash Q-learning agents in Hotelling's model: Reestablishing equilibrium. *Communications in Nonlinear Science and Numerical Simulation*, 99, 105805, , . IF=4.186 (**D1 Mathematics, Applied: 9/267**; Q1 Mathematics, Interdisciplinary), AIS=0.853 (Q2).
6. **Kukacka, J., Kristoufek, L. (2020)**. Do 'complex' financial models really lead to complex dynamics? Agent-based models and multifractality. *Journal of Economic Dynamics and Control*, 113, 103855, , . IF=1.588, AIS=1.062 (Q2).
5. **Polach, J., Kukacka, J. (2019)**. Prospect Theory in the heterogeneous agent model. *Journal of Economic Interaction and Coordination*, 14 (1), pp. 147-174, . IF=1.565 (Q2), AIS=0.403.
4. **Stanek, F., Kukacka, J. (2018)**. The impact of the Tobin tax in a heterogeneous agent model of the foreign exchange market. *Computational Economics*, 51 (4), pp. 865-892, . IF=1.185, AIS=0.305.
3. **Kukacka, J., Barunik, J. (2017)**. Estimation of financial agent-based models with simulated maximum likelihood. *Journal of Economic Dynamics and Control*, 85, pp. 21-45, . IF=1.579 (Q2), AIS=1.133 (Q2).
2. **Barunik, J., Kukacka, J. (2015)**. Realizing stock market crashes: Stochastic cusp catastrophe model of returns under the time-varying volatility. *Quantitative Finance*, 15 (6), pp. 959-973, . IF=0.794, AIS=0.633 (Q2).
1. **Kukacka, J., Barunik, J. (2013)**. Behavioural breaks in the heterogeneous agent model: The impact of herding, overconfidence, and market sentiment. *Physica A: Statistical Mechanics and its Applications*, 392 (23), pp. 5920-5938, . IF=1.722 (Q2 Physics, Multidisciplinary), AIS=0.473 (Q2).

Chapters in Books

1. **Kukacka, J. (2019)**. Simulated maximum likelihood estimation of agent-based models in economics and finance. In: Chakrabarti, A., Pichl, L., Kaizoji, T. (eds). Network theory and agent-based modeling in economics and finance. *Springer, Singapore*, .

Working Papers

3. **Franke R., Kukacka, J. (2020)**. Notes on the neglected premisses of the Hodrick–Prescott detrending and the Hamilton regression filter. *SSRN Working Paper 3747794*, .
2. **Brakatsoulas, P., Kukacka, J. (2020)**. Credit rating downgrade risk on equity returns. *IES CUNI Working Papers, 12/2000*, .
1. **Kukacka, J., Jang, T.-S., Sacht, S. (2018)**. On the estimation of behavioral macroeconomic models via simulated maximum likelihood, *Kiel University Economics Working Paper* No. 2018-11, .

Submissions/In Preparation

4. **Sila, J., Kocenda, E., Kristoufek, L., Kukacka, J. (2025)**. Determinants of wash trading in major cryptoexchanges. *SSRN Working Paper 4971590*, . Resubmitted after minor revision to *International Review of Financial Analysis*. IF=9.8 (**D1: 2/241**), AIS=1.573 (**Q1**).
3. **Kukacka, J., Zila, E. (2026)**. Wealth, cost, and misperception: Empirical estimation of three interaction channels in a financial-macroeconomic agent-based model. *IES CUNI Working Papers, 22/2024*, , . Resubmitted after revision to *Journal of Economic Behavior & Organization*. IF=2.3 (Q2), AIS=1.27 (**Q1**).
2. **Franke, R., Kukacka, J., Sacht, S. (2026)**. A data-driven method to determine the smoothing parameter in the Hodrick-Prescott filter. *SSRN Working Paper 4147280*, . Resubmitted after revision to *Computational Economics*. IF=2.2 (Q2), AIS=0.417.
1. **Kukacka, J., Cech, F. (2026)**. LNG bunker fuel hedging.

INTERNATIONAL COLLABORATIONS

S. Sacht	Hamburg Institute of International Economics & University of Kiel, Germany
C. R. Proano	University of Bamberg, Germanyy
T. Makarewicz	University of Warsaw, Poland
R. Franke	University of Kiel, Germany
L. Bargigli	University of Florence, Italy
B. Branch	University of California, Irvine, USA

GRANT FUNDING

2024 – 2026	**Czech Science Foundation (GAČR)**, 24-11558S (Team Member) Hedging uncertainty in commodity markets
2024 – 2025	**Charles University**, UNCE 24/SSH/020 (Participant) Center for Advanced Economic Studies II
2023 – 2025	**Czech Science Foundation (GAČR)**, 23-06606S (Team Member) Deep dive into decentralized finance: Market microstructure, and behavioral and psychological patterns
2020 – 2022	**Czech Science Foundation (GAČR)**, 20-14817S (**Principal Investigator**) Linking financial and economic agent-based models: An econometric approach
2020 – 2022	**Czech Science Foundation (GAČR)**, 20-17295S (Team Member) Cryptoassets: Pricing, interconnectedness, mining, and their interactions
2019 – 2021	**Charles University**, PRIMUS/19/HUM/017 (Team Member) Behavioral finance and macroeconomics: New insights for the mainstream
2018 – 2023	**Charles University**, UNCE/HUM/035 (Participant) Center for Advanced Economic Studies
2016 – 2017	**Charles University**, UNCE 204005/2012 (Participant) Center for Advanced Economic Studies
2017 – 2019	**Czech Science Foundation (GAČR)**, 17-12386Y (Team Member) Multifractality analysis in finance: Extreme events, portfolio and risk management, and market complexity
2014 – 2016	**European Commission**, FP7 EU 612955.SSH-2013.1.3-2: FinMaP (Team Member) Financial distortions and macroeconomic performance: Expectations, constraints and interaction of agents
2015	**Grant Agency of the Charles University (GAUK)**, G192215 (**Principal Investigator**) Simulated ML estimation of financial agent-based models
2013 – 2018	**Czech Science Foundation (GAČR)**, P402/12/G097 DYME (Team Member) Dynamic Models in Economics (Excellence project)
2012 – 2014	**Grant Agency of the Charles University (GAUK)**, 588912 (**Principal Investigator**) Empirical validation of heterogeneous agent models

CONFERENCE PRESENTATIONS

2026	Workshop on Economic Science with Heterogeneous Interacting Agents	Ancona
	10th Workshop in Financial Markets and Nonlinear Dynamics	Paris
	ROBUST	Srni
2025	2nd International Workshop on Economic Complexity and Macroeconomic Dynamics	Bamberg
	Conference on Econometrics and Statistics	Tokyo
	Computing in Economics and Finance	Santiago de Chile
	9th Workshop in Financial Markets and Nonlinear Dynamics	Paris
	Multi-Agent Data-driven Modelling in Economics	Venice
2024	7th Cryptocurrency Research Conference	Dubai
	International Conference on Economic Policy in Complex Environments	Milan
	6th Behavioral Macroeconomics Workshop	Heidelberg
	8th Workshop in Financial Markets and Nonlinear Dynamics	Paris
2023	2nd DISEI Workshop on Heterogeneity, Evolution and Networks	Florence
	Conference on Computational Statistics	London
	7th Workshop in Financial Markets and Nonlinear Dynamics	Paris
2022	Conference on Computational and Financial Econometrics	online
	Workshop on Data-Driven Economic Agent-Based Models	Pisa
	Workshop on Model Evaluation and Causal Search	Pisa
	Conference on Computational Statistics	Bologna
	Econophysics Colloquium	online
	4th Behavioral Macroeconomics Workshop	Bamberg
	Workshop on Computational and Experimental Economics	Barcelona
	6th Workshop in Financial Markets and Nonlinear Dynamics	Paris
2021	Econophysics Colloquium	Lyon
	Conference on New Trends in Econometrics and Finance	online
	1st DISEI Workshop on Heterogeneity, Evolution and Networks	Florence
	First International Workshop on Agentization	online
	Workshop on Economic Science with Heterogeneous Interacting Agents	online
	Conference on Econometrics and Statistics	online
2020	Conference on New Trends in Econometrics and Finance	online
	Econometric Research in Finance	online
	Annual EAEPE Conference	online
	Annual Conference of the Eastern Economic Association	Boston
2019	Conference on Computational and Financial Econometrics	London
	International CSR, Ethics and Sustainable Business	Braga
	Annual EAEPE Conference 2019	Warsaw
	Computing in Economics and Finance (session chair)	Ottawa
	Workshop on Economic Science with Heterogeneous Interacting Agents (session chair)	London
	2nd Behavioral Macroeconomics Workshop	Bamberg
2018	Workshop on Economic Science with Heterogeneous Interacting Agents	Tokyo
	Computing in Economics and Finance	Milan
2017	Workshop on Economic Science with Heterogeneous Interacting Agents	Milan
	Computing in Economics and Finance	New York
2016	Workshop on Economic Science with Heterogeneous Interacting Agents	Castellon
	Computing in Economics and Finance	Bordeaux
	Collaborative EU Project FinMaP General Assembly Meeting	Leuven
2015	Conference on Computational and Financial Econometrics	London
	Econophysics Colloquium (session chair)	Prague
	Computing in Economics and Finance	Taipei
	First Bordeaux-Milano Joint Workshop on A-B Macro	Bordeaux
	Workshop on Economic Science with Heterogeneous Interacting Agents	Nice
2014	Conference on Computational and Financial Econometrics	Pisa
	Social Modeling and Simulations + Econophysics Colloquium	Kobe
	Workshop on Economic Science with Heterogeneous Interacting Agents	Tianjin
2013	Workshop on AB Approaches in Economic and Social Complex Systems	Tokyo
	Workshop on Economic Science with Heterogeneous Interacting Agents	Reykjavik
2012	Conference on Computational and Financial Econometrics	Oviedo
	Computing in Economics and Finance	Prague
	Latsis Symposium and Workshop	Zurich
	Workshop on Economic Science with Heterogeneous Interacting Agents	Paris

Summer Schools and Workshops (selected)

2020	Foundation course on DSGE Modelling (6-day course)	University of Surrey
	Behavioral Macro and Complexity (5-days course)	Timbergen Institute
2017	Workshop on Validation Methods for Agent-Based Models	Kent
2015	First Ancona-Milano Summer School on Agent-Based Economics	Ancona
2014	Agent-Based Modeling teaching course	Leipzig
2013	4th Summer School of the European Social Simulation Association	Hamburg

Academic Memberships

2021 – 2023 Representative of FSV UK in **Rada vysokych skol**
Member of the Economic Commissison

2014 – 2023 **Academic Senator FSV UK**
Terms: 2014 – 2016, 2018 – 2021, 2022 – 2023, Chair of the Legislative Commission 2019 – 2021, 2022 – 2023

2014 – 2025 **Disciplinary Committee FSV UK**

2012+ Society for Economic Science with Heterogeneous Interacting Agents

2012+ Society for Computational Economics

2009 – 2011 Charles University International Club

2007 – 2012 E-Klub, students' economic club, Charles University

Teaching and Supervision

2022+	**Econometrics I**, Course Supervisor and Lecturer	bachelor's level
2017+	**Introductory Econometrics**, Course Supervisor and Lecturer	master's level
2012+	**Applied Econometrics**, Lecturer (2024+) and Teaching Assistant	master's level
2018 – 2023	**Behavioral Economics and Finance**, Lecturer	bachelor's level
2015 – 2017	**Advanced Econometrics**, Teaching Assistant	master's level
2011 – 2015	**Econometrics II**, Teaching Assistant	bachelor's level

2013+ **Theses Supervision:** 4 doctoral, 16 master's, 27 bachelor's theses

Awards

2017 **Lindau Nobel Laureate Meeting participation**
Selected among thousands of young researchers from over 70 countries to represent Czechia in the prestigious 6th Lindau Nobel Laureate Meeting on Economic Sciences that hosted 18 Nobel laureates

2024, 2025 **Golden Course Faculty Teaching Award** for Econometrics I
Best bachelor's level economic course

2025 **Best Course Teaching Award** for Introductory Econometrics

2023 – 2025 **Best Course Teaching Award** for Econometrics I

2019 **IES FSV UK Alumni Chair**

2015 **Best Course Teaching Award** for Advanced Econometrics

2014 – 2020 **Best Course Teaching Award** Applied Econometrics (in 2014, 17, 20)

2012 – 2021 **Golden Course Faculty Teaching Award** for Applied Econometrics (in 2012, 18, 19, 20, 21)

2011 **Dean's Award** for an extraordinarily good master's diploma thesis

2009 – 2011 **RWE Scholarship** for graduate students

2008 **Dean's Award** for an excellent Final State Exam performance and for an extraordinarily good bachelor's diploma thesis

PROFESSIONAL SERVICES

2025+ **Czech Science Foundation (GACR), Panel 403**
Evaluation Panel for Business and Mngmt Science, Finance, Financial Econometrics and Operational Research

2023 – 2026 **Grant Agency of the Charles University (GAUK)**
Evaluation Panel for Economic Sciences

2026+ **Co-Editor**, Czech Journal of Economics and Finance

2021+ **Editorial Board**, Springer Nature Business & Economics

2018+ **Associate Editor**, Prague Economic Papers

Refereeing

Over **50 regular reviews** for: Review of Economic Dynamics, Journal of Economic Dynamics and Control (5×), Journal of Economic Behavior & Organization (5×), International Review of Financial Analysis, Financial Innovation, Journal of International Financial Markets, Institutions & Money, Quantitative Finance (2×), Macroeconomic Dynamics (3×), Economic Modelling, Computational Economics (4×), Journal of Economic Interaction and Coordination (5×), Springer Nature Business & Economics, Advances in Complex Systems, Physica A (2×), Review of Behavioral Finance, Metroeconomica, Emerging Markets Finance and Trade, International Review of Economics and Finance, PLOS One, e-journal Economics, Scottish Journal of Political Economy, Czech Journal of Economics and Finance (5×), Prague Economic Papers (3×), Czech National Bank Working Papers

SUCCESSES OF MY STUDENTS

2026 *D. Vandasova*: Director's Award for Distinguished Theses (master's level)

2025 *S. Smid*: Director's Award for Distinguished Theses (bachelor's level)

2024 *J. X. Ji*: Deloitte Outstanding Thesis Award (bachelor's level), **Goethe University Frankfurt**

2023 *K. Coufalova*: **University of Oxford**
T. Bielakova: Deloitte Outstanding Thesis Award (bachelor's level), **ETH Zurich**

2022 *A. Macejovsky:* Deloitte Outstanding Thesis Award (master's level)

2021 *E. Zila:* Deloitte Outstanding Thesis Award (bachelor's level), **University of Amsterdam**

2020 *R. Wojnarova:* Deloitte Outstanding Thesis Award (master's level)
K. Havelkova: Deloitte Outstanding Thesis Award (master's level)
S. Bolshakov: Deloitte Outstanding Thesis Award (bachelor's level)

2018 *J. Vainer:* Deloitte Outstanding Thesis Award (bachelor's level)

2017 *A. Pintekova:* **Josef Vavrousek Award FSV UK**

2016 *J. Polach:* MSc in Finance at the **London School of Economics**

2014 *F. Stanek:* Dean's Award for an extraordinarily good bachelor's thesis

SKILLS AND INTERESTS

Languages

English: Fluent, C1 Advance (CAE) certificate from 2009, work and study in the USA and UK
German: Intermediate passive
Czech: Mothertongue

Technical Skills

Julia, R, Matlab, Gretl, LaTeX, Jupyter, Git, parallel computing

Interests

Trips with our kids
Sports and outdoor pursuits (bikepacking, backpacking, long-distance cycling, jogging)
Traveling (so far 55 countries visited, the most interesting: Tajikistan, Mountainous Karabakh, Japan)

May 14, 2026