

DR. GREGORY V. CHERNOV

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github.com/gregory-ch

Germany

TECHNICAL SKILLS

General causal inference | Randomisation inference | EconML | Dowhy
Outcome-based Learners (e.g. X-Learner) | Causal discovery | Machine Learning Based Estimation | Balancing | Experimentation | AB-tests | Cluster based randomisation | Structure learning | Optimal experiments Augmented models | Panel and time-series | Interpretable ML | Quasi-experiments | Monte-Carlo Sampling | Item-response regressions | oTree | SQL (Django/Starlette) Git | Photoshop & CorelDraw Tableau | Orsee

RESEARCH/WORK EXPERIENCE

Research Fellow/Laboratory Manager

Experimental Laboratory for Finance and Economics at University College London

APR. 2024 – pres.

London

Guest researcher

Max Planck Institute for Biological Cybernetics

2023 – MAR. 2024

Tübingen

- Design, Conduct and Analysis of Neuroeconomic Experiments related to dynamic risk preferences assessment.

Postdoc Research Fellow

HSE Campus in St. Petersburg, Center for Market Studies and Spatial Economics

2022 – DEC. 2023

remote

- Establishing an industry-university cooperation
- Deploying the participant recruitment system for economic experiments based on ORSEE

Guest Researcher

University of Tübingen, Department of Computer Science

2022 – 2023

Tübingen, Germany

- Conducted structural econometric estimates involving simulation of panel data using open data (pandas)

Research Assistant

HSE laboratory research for experimental and behavioural economics

2016 – 2022

Moscow, Russia

- Assembled an interdisciplinary team and funding for neuro-measurement, organised a pipeline between experimental software and equipment (NaCIModule; psychojis; jsPsychHardware)
- Designed and assisted more than 20 field and laboratory experiments
- Created many web applications for experiments which were hosted and maintained on heroku servers (Jango; REST API)
- Supervised 5 student research projects (Ba/Ma thesis)
- Gave and assisted multiple university lectures (see teaching)
- Contributed to development of experimental designs for inter-regional lab in the field experiments

ABOUT ME

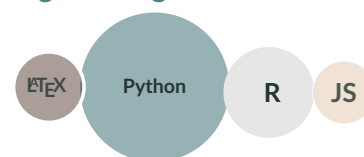
I am a behavioral scientist with a background in game theory, experimental economics (including neuroeconomics), and probabilistic inference. I am excited to contribute my expertise to further advancements in topics such as the economics of attention, cognitive economics, economic data engineering, and empirical and experimental methods.

LANGUAGES AND SKILLS

Languages

- Russian (native) • English (fluent)
- German (elementary)

Programming



ADMINISTRATION

- International natural sciences tournament, executive director, 2016
- Co-founder of non-profit organization «Grani obrazovaniya» for student competitions and educational events 2016 – 2021
- Summer School 'Experimental Economics: Purposes, Design, Tools' 2019, 2019 St. Petersburg

AWARDS AND FELLOWSHIPS

DAAD Short-Term Grants, Jena, Germany, 2020–2021

HSE founded scholarship for doctoral students, 2016–2019

DAAD Short-Term Grants, Heidelberg, Germany, 2018–2019

Vladimir Potanin foundation scholarship, 2016

Guest Researcher

University Jena, Department of empirical and experimental economic research

📅 2020 Oct — 2021 Sep

📍 Jena, Germany

- Developed a user interface for analysing the complexity of user beliefs or strategies (js|cytoscape)

Guest researcher

University Heidelberg, Alfred-Weber institute, Economic Theory II

📅 2018 Dec — 2019 Mar

📍 Heidelberg, Germany

- Wrote a platform to help analyse the identification of structural learning patterns through Monte Carlo simulations of player behaviour (numba,scipy)

EDUCATION

Ph.D. in Economics.

Thesis Title: [Models of learning in economic experiments \(eng\)](#)

Higher school of economics (HSE)

📅 2016 Nov - 2022 Oct

📍 Moscow, Russia

M.Sc. Financial management; B.Sc. Management

Novosibirsk state university (NSU)

📅 2014–2016; 2010–2014

📍 Novosibirsk, Russia

PUBLICATIONS

- *Article* Chernov G. "The Alternative Factors Leading to Replication Crisis: Prediction and Evaluation." *Evaluation Review*. 2024; 0193841X241229106. [doi](#)
- *Conference paper* Chernov G., Rydich P., Ladonovskaya K., Belianin A. 2022, October. Dynamic estimation of risk preferences: behavioural and neuroeconomic study // International Conference on Biomedical Engineering and Computational Technologies (SIBIRCON). IEEE 2022 [doi](#)
- *Article* Chernov G. How to Learn to Defeat Noisy Robot in Rock-Paper-Scissors Game: An Exploratory Study // *HSE Economic Journal*. 2020. Vol. 24. No. 4. P. 503-538. [doi](#) [RePEc](#)
- *Article* Chernov G., Susin I. Models of learning in games: an overview // *Zhurnal Novoi Ekonomicheskoi Associacii*. 2019 Vol. 44, P.77. [doi](#) [RUS]
- Chernov G., Susin I. Heuristics Recognition and Learning in Rock-paper-scissors Game: Experimental Study // *Russian Journal of Economic Theory*, 2018 15(3):408-19.
- *Book Review* Chernov G. Book Review Keith Stanovich, Richard West, and Maggie E.Toplak: The rationality quotient: toward a test of rational thinking // *Journal of Behavioral Economics for Policy*. 2017. Vol. 1. No. 1. P. 81-82.

PREPRINTS AND WORKS IN PROGRESS

- *JPM* How we identify cause-effect relationships given evidence: An exploratory study // 2023 [link](#)
- *Preprint* Chernov G., Maghsudi S., Susin I. Directional Learning in continuous action spaces // 2023. [doi](#)
- *Preprint* Susin I., Chernov G., Cheparuhin S. Evaluation of Econometric Models of Adaptive Learning by Predictive Measures // SSRN. Series "Working Papers". 2020 [doi](#) [under revision]
- *Work in progress* Chernov G., Melnikov M., Rydich P., Ladonovskaya K., Belianin A. Default mode network activation during real effort risky decision-making
- *Work in progress* Chernov G., Susin I., Neither Reinforcement nor Belief Learning in Repeated Bimatrix Asymmetric Interactions
- *Work in progress* Chernov G., Sofianos A., Susin I. Recognition Complexity in repeated games

FUNDING

Within the group Institutions and preferences in economic behavior" under the "Mirror Laboratories" project (2020-2022)

Within the group HSE research project: [Cooperation, competition and expectations in long-distance experiments within and between Russian regions](#)

Within the group Russian Science Foundation research project "FMRT study of economic decisions under conditions of exogenous risk" 22-28-02006

Within the group Russian Science Foundation research project "Psychological factors of Russia's economic and social competitiveness" 17-78-30035

DEVELOPED SOFTWARE

[A python version of R package for computing asymmetric Shapley values to assess causality in any trained machine learning model](#)

TEACHING EXPERIENCE

- Behavioral and Experimental Economics, guest lecturer (bachelor, HSE)
- Student Term / Thesis Papers (bachelor; master, HSE / NSU)
- Microeconomics for finance, lecturer assistant (bachelor, HSE)
- Risk management, lecturer assistant (bachelor, NSU)
- Project management, practices course coach (bachelor, NSU)
- ICEF evening school, lecturer (high school students)