

PERSONAL INFORMATION	Location: Frankfurt am Main, Germany Tel: +49 176 693 777 29 Website: www.y-markov.com  Email: yuamarkov@gmail.com 	
EDUCATION	PhD in Psychology HSE University (Russia), Title: "The Structure of Visual Working Memory Units" Advisor: Igor S. Utochkin	2022
	M.S. in Psychology with Honours Program: Cognitive Sciences and Technologies: From Neuron to Cognition HSE University (Russia)	2017 – 2019
	B.S. in Psychology with Honours HSE University (Russia)	2013 – 2017
RESEARCH EXPERIENCE	Postdoc – Institute of Medical Psychology Goethe University, Frankfurt am Main, Germany Postdoc – Scene Grammar Lab, Frankfurt am Main, Germany Visiting researcher – Laboratory of Psychophysics EPFL, Lausanne, Switzerland Research assistant (remote) – Fougny Lab, New York University Abu Dhabi Junior Research Fellow – Laboratory for Cognitive Research, HSE University, Russia	2026 – now 2023 – 2025 2020 – 2023 2020 – 2022 2016 – 2022
SKILLS	Hard skills: Strong scientific knowledge and experience; Behavioral experiments; Experimental design and methodology; Online experiments, testing, and surveys (JavaScript, Pavlovia.org, Prolific.co, Sonar); Data analysis; Data visualization (ggplot, matplotlib, seaborn); EEG (Brain products) and Eye tracker (SMI); MEG (decoding and analysis) Soft skills: Communications skills; Collaboration; Project management; Problem-solving; Creativity; Adaptability Programming languages & Software: Python; JavaScript; Matlab; R; PsychoPy/JS; MNE package; Presentation; Adobe Photoshop; Adobe Illustrator; Unity (Basic); MS Office Data analysis: Python; R; JASP; SPSS Languages: English (Fluent); German (Basic); Russian (Native);	
JOURNAL PUBLICATIONS (* - EQUAL CONTRIBUTION)	Markov Y.* , Vö M. (2025) Scene consistency enhances state representations of real-world objects // Scientific Reports DOI  Tiurina N.* , Markov Y.* (2025) Ensemble representation of animacy could be based on mid-level visual features // Attention, Perception, Psychophysics DOI  Markov Y. , Tiurina N., Pascucci D. (2024) Serial dependence: A matter of memory load // Heliyon DOI  Tiurina N., Markov Y. , Whitney D., Pascucci D. (2024) The functional role of spatial anisotropies in ensemble perception // BMC Biology DOI  Sasin E.*, Markov Y.* , Fougny D. (2023) Meaningful objects avoid attribute amnesia due to incidental long-term memories // Scientific Reports DOI  Tiurina N., Markov Y. , Choung O., Herzog M., Pascucci D. (2022) Unlocking crowding by summary statistics // Current Biology DOI  Williams J., Markov Y. , Tiurina N., Störmer V. (2022) What you hear is what you see: Sounds alter the contents of visual perception // Psychological Science DOI  Markov Y. , Byvaltseva E. (2022) Visual search of threat-relevant stimuli // Mir Psychologii [=The World of Psychology, in RUS] DOI  Mikhalev N., Tiurina N., Markov Y. (2022) Object-location binding in realistic scenes in visual working memory // Psychologicheskii Zhurnal [=Psychological Journal, in RUS] DOI  Markov Y. , Utochkin I. S., (2022) Effects of item distinctiveness on the retrieval of objects and object-location bindings from visual working memory // Attention, Perception, Psychophysics DOI  Markov Y. , Utochkin I. S., Brady T. F. (2021) Real-world objects are not stored in holistic representations in visual working memory // Journal of Vision. Vol. 21. No. 3. P. 1-24 DOI  Markov Y. , Tiurina N. (2021) Size-distance rescaling in the ensemble representation of range: Study with binocular and monocular cues // Acta Psychologica. 2021. Vol. 213. Article 103238. DOI  Rubtsova O. S., Feoktistova A. A., Markov Y. , Gorbunova E. S. (2021) The influence of emotionally significant information on the spatial perception of urban objects on the map // Psychologicheskii Zhurnal [=Psychological Journal, in RUS] Gracheva A. S., Ivanina E. O., Markov Y. , Gorbunova E. S. (2020) Search for familiar and dangerous: not seeing gopnik in the crowd. // Psikhologicheskie Issledovaniya [=Psychological Studies] DOI  Markov, Y. , Tiurina, N. A., Utochkin, I. S. (2019). Different features are stored independently in visual working memory but mediated by object-based representations // Acta Psychologica, 197, 52-63. DOI  Markov, Y. , Tiurina, N. A., Stakina, Y. M., & Utochkin, I. S. (2017). The capacity and precision of visual working memory for object and ensembles // Psychology. Journal of the HSE University, 14, 735-755 DOI 	

Koval, A. V., Vlasov, P., Shichkova, P., Khundryakova, S., **Markov, Y.**, Panchenko, J., Volodina A., Kondrashov F.A., Katanaev, V. L. (2014). Anti-leprosy drug clofazimine inhibits growth of triple-negative breast cancer cells via inhibition of canonical Wnt signaling. *Biochemical Pharmacology*, 87(4). [DOI](#)

SELECTED
CONFERENCE
ABSTRACTS

Markov, Y., Vö M., Wolfe J. (2024). VowelWorld 2.0: Using artificial scenes to study semantic and syntactic scene guidance. *Journal of Vision*, 18(10), 700. [DOI](#)

Markov Y., Tiurina N., Mikhalev N., Utochkin I., JURICS Stimulus base - Joint Universal Real-world Images with the Continuous States // 43rd European Conference on Visual Perception

Markov Y., Bornet A., Tiurina N., Herzog M. (Un)crowding is pre-attentive // European Conference on Visual Perception (ECPV 2022)

Markov, Y., Dulyan, L. G., Rosenholtz, R., Utochkin, I. S. (2019). The occurrence of illusory conjunctions correlates with the spatial noise in peripheral vision. *Journal of Vision*, 19(10), 66a. [DOI](#)

TEACHING
EXPERIENCE

Lecturer

Python for Psychologists , **author** 2024

Programming experiments with PsychoPy, **author** 2020, 2021

Experimental Psychology/Empirisch-experimentelles Praktikum 2017, 2018, 2019, 2023, 2024

Ergonomics of Human–Machine Interaction, **author** 2017, 2018

Research Seminar: Legal And Ethical Foundations of Psychological Practice 2017, 2018

Teacher assistant

Psychology 2017, 2018

Psychodiagnostics 2016

Mathematics 2014

Supervised over 10 Bachelor's and Master's students

SELECTED
INVITED
TALKS

Attribute amnesia for complex stimuli, *Fougnie Lab, NYUAD* 2021

How to program online experiments with PsychoPy, *Cognitive Hackathon, Saint-Petersburg, Russia* 2021

Dissociable effects of distinctiveness on visual working memory for objects and object-location conjunctions, *Visual Attention Lab, Harvard* 2021

Do Psychologists Dream of Online Experiments?, *GRADSCHOOL TCTS Saint-Petersburg, Russia* 2020

GRANTS
AND AWARDS

RFBR Grant (leader): Visual representation of real world objects with continuously changing features 2020-2022

OPAM 28 Professional Development Awards 2020

Scholarship of the Oxford Russian Fund 2016, 2017, 2018, 2020

Applicant Silver Nestling HSE 2019

Winner of the "I am a professional" competition 2019 (Yandex.ru) 2019

Scholarships of outstanding scientists of HSE 2018

Student Research Paper Competition held by HSE University 2016, 2017, 2018, 2019

VOLUNTEERING

Team leader and lecturer in the School of Molecular and Theoretical Biology 2014, 2016, 2017, 2019

Coordinator of the stand "Science and Technology" at the "HSE Day" 2014, 2015, 2016, 2018

Served as a Senior UX Researcher in the project aimed at improving the university's mobile application and LMS website

REFEREES

Prof. Melissa Vö

Professor for Neuro-Cognitive Psychology at the LMU

Email: melissa.vo@psy.lmu.de

Dr. David Pascucci

Assistant Professor (SNSF) CHUV-UNIL

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Prof. Michael Herzog

Head of the Laboratory of Psychophysics, EPFL

Email: michael.herzog@epfl.ch

Dr. Timothy F. Brady

Assistant Professor of Psychology (Principal Investigator), UC San Diego

Email: timbrady@ucsd.edu

Dr. Igor S. Utochkin

Research Scientist, University of Chicago

Email: isutochkin@inbox.ru