

MARIA KON

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Updated: May 1, 2023

EDUCATION

- 2017-2022 **PhD in Mathematical and Computational Cognitive Science, with a major concentration in Computational Science**
Department of Psychology
Purdue University, West Lafayette, IN, USA
- 2015-2016 **MSc in Psychological Research**
Department of Psychology
University of Edinburgh, Edinburgh, UK
- 2007-2012 **PhD in Philosophy**
History and Philosophy of Science Division, Department of Philosophy
University of Leeds, Leeds, UK
- 2006-2007 **MA in Philosophy of Physics**
History and Philosophy of Science Division, Department of Philosophy
University of Leeds, Leeds, UK
- 2004-2006 **MA in Philosophy**
Department of Philosophy
University of Nebraska-Lincoln, Lincoln, NE, USA
- 2001-2004 **BA in Philosophy**
Department of Philosophy
Wilkes University, Wilkes-Barre, PA, USA
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POSITIONS

- 2023-now **National Research Council Postdoctoral Fellow**, United States
Naval Research Laboratory
- 2022 **Postdoctoral Researcher**, Sereno Lab, Purdue University
- spring 2022 **Research Assistant**, Sereno Lab, Purdue University
- 2018-2021 **Teaching Assistant**, Purdue University
- 2013-2015 **Postdoctoral Research Fellow**, The Centre for Time and the Unit for History and Philosophy of Science, University of Sydney, Australia
- 2010-2012 **Visiting Lecturer**, Department of Philosophy, University of York, UK
- 2007-2011 **Teaching Assistant**, University of Leeds
- 2004-2006 **Teaching Assistant**, University of Nebraska-Lincoln
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PROGRAMMING SKILLS

- 7+ years **Python, MATLAB, R**
- 4+ years **NEST simulator**
- 3+ years **HoloLens 1 and 2: App design, development and deployment**
- 3+ years **Unity, C#, Visual Studio, MRTK, JavaScript, HTML, VTK**
- familiarity **Clojure, PsychoPy, Psychtoolbox, Prolog**
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PUBLICATIONS

Under review

- Kon, M.**, & Francis, G. Perceptual grouping strategies and texture segmentation: Strategic connections and selection. Submitted to: *Vision Research*.
- Sereno, A., **Kon, M.**, & Larranaga, D. Physiological mechanisms of attention and short-term memory. Submitted to: *Oxford Research Encyclopedia of Neuroscience*.
- Francis, G., & **Kon, M.** A replication and reanalysis of a classic texture segmentation study. Submitted to: *Attention, Perception, & Psychophysics*.

In preparation

- Kon, M.**, & Francis, G. How perceptual grouping strategies explain induced grouping.
- Kon, M.**, & Francis, G. Perceptual grouping strategies in an enumeration task.

Peer-reviewed articles

- 2023 Shamloo, F., **Kon, M.**, Ritter., E., & Sereno, A. B. Quantifying the magnitude and longevity of the effect of repetitive head impacts in adolescent soccer players: Deleterious effect of long headers extend beyond a month. *Neurotrauma Reports*, 4(1), 267-275.
- 2022 **Kon, M.**, & Francis, G. (2022). Perceptual grouping strategies in a letter identification task: Strategic connections, selection, and segmentation. *Attention, Perception, & Psychophysics*, 84, 1944-1963.
- Kon, M.**, & Francis, G. (2022). Cortical circuits for top-down control of perceptual grouping. *Neural Networks*, 151,190-210.
- 2019 Dzhafarov, E. N., & **Kon, M.** (2019). On universality of classical probability with contextually labeled random variables: Response to A. Krennikov. *Journal of Mathematical Psychology*, 89, 93-97.
- 2018 Dzhafarov, E. N., & **Kon, M.** (2018). On universality of classical probability with contextually labeled random variables. *Journal of Mathematical Psychology*, 85, 17-24.
- 2015 Baron, S., Cusbert, J., Farr, M., **Kon, M.**, & Miller, K. (2015). Temporal experience, temporal passage and the cognitive sciences. *Philosophy Compass*, 10(8), 560-571.
- Kon, M.** (2015). The temporality of musical experience: Philosophical models and embodiment. *Empirical Musicology Review*, 9(3), 213-223.
- Kon, M.**, & Miller, K. (2015). Temporal experience: Models, methodology and empirical evidence. *Topoi*, 34(1), 201-216.
- 2014 Rickles, D., & **Kon, M.**. (2014) Interdisciplinary perspectives on the flow of time. *Academy of Sciences*, 1326(1), 1-8.

Edited collection

- Rickles, D., & **Kon, M.** (Eds.). (2014). Flow of Time. [Special issue]. *Annals of the New York Academy of Sciences*, 1326(1).

SELECTED PRESENTATIONS

Invited talks

- Kon, M.** (2022, March). A model of grouping strategies in visual search tasks. Talk presented at the Naval Research Laboratory's Reasoning Lunch series, Online.
- Kon, M., & Francis, G.** (2020, October). Perceptual grouping strategies in visual search tasks. Talk presented at University of Iowa's Visual Perception Research Group seminar series, Online.

Peer-reviewed conference talks

- 2023 **Kon, M., & Francis, G.** (2023, May). A replication and reanalysis of a classic texture segmentation study. Talk presented at the annual conference of the Vision Sciences Society, St. Pete Beach, FL, USA.
- 2022 **Kon, M., & Francis, G.** (2022, November). A replication study of two classic texture segmentation tasks. Talk presented at the Psychonomic Society Annual Meeting, Boston, MA, USA.
- Kon, M., & Francis, G.** (2022, May). Modeling perceptual grouping strategies in visual search tasks. Talk presented at the MODVIS (Computational and Mathematical Models in Vision) workshop, St. Pete Beach, FL, USA.
- 2021 **Kon, M., & Francis, G.** (2021, November). Psychophysics experiments in real world environments: Using augmented reality to study the moon size illusion. Talk presented at the annual conference of the Campus Alliance for Advanced Visualization, West Lafayette, IN, USA.
- Francis, G., & Kon, M.** (2021, August). Perceptual grouping and selection strategies in a letter discrimination task. Talk presented at the European Conference on Visual Perception, Online.
- Kon, M., & Francis, G.** (2021, May). Perceptual grouping strategies in an enumeration task. Talk presented at the annual conference of the Vision Sciences Society, Online.
- 2015 **Kon, M.** (2015, July). Disgust, attention and dissonance. Talk presented at the Annual Conference of the Royal Music Association Music and Philosophy Study Group, London, UK.
- 2014 **Kon, M.** (2014, December). Modelling apparent temporal order: Philosophical and psychological approaches. Paper presented at the 10th conference of the Australasian Society for Cognitive Science, Melbourne, Australia.
- Kon, M.** (2014, November). Disgust, expectations and dissonance. Talk presented at the National Conference of the Musicological Society of Australia, Melbourne, Australia.
- Kon, M., Goodbourn, P., & Holcombe, A.** (2014, July). Implications of temporal limits of perception in psychology for philosophical approaches to temporal experience. Panel presentation at the conference of the Australasian Association for the History, Philosophy and Social Studies of Science, Katoomba, Australia.
- 2013 **Kon, M.** (2013, September). Conceptual analysis and quantum gravity. Talk presented at the Philosophical Foundations of Quantum Gravity Seminar, Chicago, IL, USA.

- Kon, M.** (2013, July). Projection and the experience of auditory succession. Talk presented at the Embodied Music Cognition Conference, Edinburgh, UK.
- Kon, M.** (2013, July). Projection and the experience of auditory succession. Talk presented at the annual conference of the Australasian Association of Philosophy, Brisbane, Australia.
- 2011 **Kon, M.** (2011, April). Analyses of concepts: A philosophical mere means to a historical end? Talk presented at the sixth Joint Workshop on Integrated History and Philosophy of Science, Cambridge, UK.
- 2010 **Kon, M.** (2010, July). A metaphysics of non-individuals for quantum mechanics. Talk presented at the annual conference of the British Society for the Philosophy of Science, Dublin, Republic of Ireland.
- Kon, M.** (2010, July). A conceptual analysis for concepts in physics. Talk presented at the annual conference of the UK and European Meeting on the Foundations of Physics, Aberdeen, UK.
- Kon, M.** (2010, June). Implications of metaethical pluralism for scientific pluralism. Talk presented at the fifth Joint Workshop on Integrated History and Philosophy of Science, Exeter, UK.
- 2009 **Kon, M.** (2009, September). Mertz's relation instances and structuralist metaphysics. Talk presented at the annual conference of the British Society for the Philosophy of Science, Sussex, UK.
- Kon, M.** (2009, June). Time in physics: A critique of the relation between scientific theory and philosophical practice. Talk presented at the fourth Joint Workshop on Integrated History and Philosophy of Science, Durham, UK.

Poster presentations

- Kon, M., & Francis, G.** (2022, May). A model of perceptual grouping and selection strategies in texture segmentation tasks. Poster presentation at the annual conference of the Vision Sciences Society, St. Pete Beach, FL, USA.
- Kon, M., & Francis, G.** (2020, June). Perceptual grouping strategies in visual search tasks. Poster presentation at the annual conference of the Vision Sciences Society, Online.
- Kon, M., & Francis, G.** (2019, May). A neural circuit for perceptual grouping, segmentation, and selection. Poster presentation at the annual conference of the Vision Sciences Society, St. Pete Beach, FL, USA.
- Kon, M., & Dzhaferov, E. N.** (2018, May). On universality of classical probability with contextually labeled random variables. Poster presented at workshop on Quantum Contextuality in Quantum Mechanics and Beyond, Prague, Czech Republic.
- Kon, M.** (2008, September). Method for a structuralist analysis of the role of time in scientific theories. Poster presented at the conference The Clock and the Quantum: Time in Quantum Foundations at the Perimeter Institute for Theoretical Physics, Waterloo, Canada.

AWARDS AND FELLOWSHIPS

2023-now	National Research Council Research Fellowship , National Academy of Sciences
2022	National Eye Institute Early Career Scientist Travel Grant , Vision Sciences Society
2020,2021 2020	Elsevier/Vision Research Virtual Travel Award , Vision Sciences Society Research Award (COVID-related transition from in-person to online data collection) , Dept. of Psychological Sciences, Purdue University
2019	Graduate Research Innovation Award , Dept. of Psychological Sciences, Purdue University
2018,2019	Purdue Student Government Travel Award , Purdue University
2017-2018	Lynn Fellowship , Purdue University
2016	Highly Commended Dissertation Award , University of Edinburgh
2011	One of five nominees for Best Teaching Assistant in a university-wide competition, University of Leeds: Student Choice Awards
2007-2010	Overseas Research Students Award Scheme Scholarship, Tetley and Lupton Scholarship and School of Philosophy Maintenance Grant , University of Leeds
2006-2007	School of Philosophy Studentship , University of Leeds
2004-2006	Larson Fellowship , University of Nebraska-Lincoln
2001	Bausch & Lomb Physics Award and Scholarship : Award for outstanding performance in physics, and full scholarship offered to pursue a B.S. in physics at the University of Rochester

SERVICE

Ad hoc
reviewer

CogSci Conference 2023 (abstract reviewer)
Journal of Mathematical Psychology
Neural Networks
Philosophical Transactions of the Royal Society A
Synthese

Conference
organizer

Probability and Contextuality (2018, November). Purdue Winer Memorial Lectures, Purdue University (co-organized with Ehtibar Dzhafarov and Victor Cervantes).

Seminar
organizer

2020-2022	Cognitive and Mathematical & Computational Psychology Graduate Student Work-In-Progress Series, Purdue University.
2009-2011	History and Philosophy of Science Graduate Student Work-In-Progress Series, University of Leeds.