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I am a cognitive and social scientist at the Oxford Internet Institute, where I study how digital environments relate to cognition and well-being using experimental, data science, and statistical methods.

Academic Positions

- 2020 - now *Postdoctoral Researcher*, Oxford Internet Institute, University of Oxford
2018 - 2020 *Postdoctoral Research Scientist*, Department of Psychology, Columbia University

Education

- 2018 PhD, Columbia University, USA
2015 M.A, Columbia University, USA
2013 BSc (HONS), Victoria University of Wellington, New Zealand

Grants, Honors & Awards

- 2016 Leo Rubinstein Endowed Fellowship (Columbia University)
Graduate Student Travel Award (Psychonomic Society)
2015 Leo Rubinstein Endowed Fellowship (Columbia University)
Edward E. Smith Memorial Award in Cognitive Neuroscience (Columbia University)
Best Student Poster Award (Association for the Scientific Study of Consciousness)
2013 Dean's Fellowship (Columbia University)
2012 Postgraduate Research Scholarship (Victoria University of Wellington)
School of Psychology Graduate Prize (Victoria University of Wellington)
Victoria University Graduate Award (Victoria University of Wellington)

Publications & Academic Contributions

Works in progress

Vuorre, M., Zendle, D., Petrovskaya, E., Ballou, N., & Przybylski, A. K. (2021). A large-scale study of changes to the quantity, quality, and distribution of video game play during the COVID-19 pandemic. *PsyArXiv*. <https://doi.org/10.31234/osf.io/8me6p>

Journal articles

- 2021 Johannes, N.*, Vuorre, M.*, & Przybylski, A. K.* (2021). Video game play is positively correlated with well-being. *Royal Society Open Science*, 8(2), 202049. <https://doi.org/10.1098/rsos.202049>
- Vuorre, M., & Metcalfe, J. (2021). Measures of relative metacognitive accuracy are confounded with task performance in tasks that permit guessing. *Metacognition and Learning*. <https://doi.org/10.1007/s11409-020-09257-1>
- 2020 Vuorre, M.*, & Crump, M. J. C.* (2020). Sharing and organizing research products as R packages. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-020-01436-x>
- 2019 Metcalfe, J., Brezler, J. C., McNamara, J., Maletta, G., & Vuorre, M. (2019). Memory, stress, and the hippocampal hypothesis: Firefighters' recollections of the fireground. *Hippocampus*. <https://doi.org/10.1002/hipo.23128>
- Bürkner, P.-C., & Vuorre, M. (2019). Ordinal regression models in psychology: A tutorial. *Advances in Methods and Practices in Psychological Science*. <https://doi.org/10.1177/2515245918823199>
- 2018 Bloom, P. A., Friedman, D., Xu, J., Vuorre, M., & Metcalfe, J. (2018). Tip-of-the-tongue states predict enhanced feedback processing and subsequent memory. *Consciousness and Cognition*. <https://doi.org/10.1016/j.concog.2018.05.010>
- Vuorre, M., & Curley, J. P. (2018). Curating research assets: A tutorial on the Git version control system. *Advances in Methods and Practices in Psychological Science*. <https://doi.org/10.1177/2515245918754826>
- Heino, M. T. J.*, Vuorre, M.*, & Hankonen, N. (2018). Bayesian evaluation of behavior change interventions: A brief introduction and a practical example. *Health Psychology and Behavioral Medicine: an Open Access Journal*. <https://doi.org/10.1080/21642850.2018.1428102>
- Chapman, S., Colvin, L. E., Vuorre, M., Cocchini, G., Metcalfe, J., Huey, E. D., & Cosentino, S. (2018). Cross domain self-monitoring in anosognosia for memory loss in Alzheimer's disease. *Cortex*. <https://doi.org/10.1016/j.cortex.2018.01.019>
- 2017 Vuorre, M. & Bolger, N. (2017). Within-subject mediation analysis for experimental data in cognitive psychology and neuroscience. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-017-0980-9>
- Sidarus, N., Vuorre, M., & Haggard, P. (2017). Integrating prospective and retrospective cues to the sense of agency: a multi-study investigation. *Neuroscience of Consciousness*. <https://doi.org/10.1093/nc/nix012>
- Vuorre, M. & Metcalfe, J. (2017). Voluntary action alters the perception of visual illusions. *Attention, Perception, & Psychophysics*. <https://doi.org/10.3758/s13414-017-1321-x>
- Vuorre, M. (2017). On time, causation, and the sense of agency. *Journal of Consciousness Studies*. <http://www.ingentaconnect.com/contentone/imp/jcs/2017/00000024/F0020003/art00011>

*Equal contribution.

Sidarus, N., Vuorre, M., Metcalfe, J., & Haggard, P. (2017). Investigating the prospective sense of agency: Effects of processing fluency, stimulus ambiguity, and response conflict. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2017.00545>

Sidarus, N., Vuorre, M., & Haggard, P. (2017). How action selection influences the sense of agency: An ERP study. *NeuroImage*. <https://doi.org/10.1016/j.neuroimage.2017.02.015>

2016 Vuorre, M. & Metcalfe, J. (2016). The relation between the sense of agency and the experience of flow. *Consciousness and Cognition*. <https://doi.org/10.1016/j.concog.2016.06.001>

2013 Michael, R. B., Newman, E. J., Vuorre, M., Cumming, G., & Garry, M. (2013). On the (non)persuasive power of a brain image. *Psychonomic Bulletin & Review*. <https://doi.org/10.3758/s13423-013-0391-6>

PhD thesis

2018 Vuorre, M. (2018). Using visual illusions to examine action-related perceptual changes. <https://academiccommons.columbia.edu/catalog/ac:73n5tb2rdf>

Scientific software

2017 Vuorre, M. (2017). bmlm: Bayesian Multilevel Mediation. R package version 1.3.4. <https://cran.r-project.org/package=bmlm>

Talks

2018 Vuorre, M. (2018, February). Within-subject mediation analysis for experimental data in cognitive psychology and neuroscience. Talk presented at Columbia University.

2017 Vuorre, M., Sidarus, N., & Metcalfe, J. (2017, September). A meta-analytic review of agency cues. Talk presented at the *European Society for Cognitive Psychology* meeting, Potsdam, Germany.

2016 Vuorre, M. (2016, April). The pragmatist's guide to studying free will. Talk presented at the *Science of Consciousness* meeting, Tucson, Arizona.

Vuorre, M. (2016, April). Voluntary actions cause a temporal rate-shift in visual awareness: Evidence from visual illusions. Talk presented at the *Science of Consciousness* meeting, Tucson, Arizona.

2015 Vuorre, M. & Metcalfe, J. (2015, June). Voluntary action and time perception. Talk presented at the *Toward a Science of Consciousness* meeting, Helsinki, Finland.

Other articles

2016 Vuorre, M. (December 5, 2016). Introduction to data analysis using R. *JEPS Bulletin*. <http://blog.efpsa.org/2016/12/05/introduction-to-data-analysis-using-r/>

2014 Vuorre, M. (April 29, 2014). What your name says about how believable you are. *Scientific American*. <https://www.scientificamerican.com/article/what-your-name-says-about-how-believable-you-are/>

Teaching

Courses

2021 Experiments for Social Data Science

Workshops

2020 Bayesian regression modelling with brms (University of Zürich; <https://mvuorre.github.io/brms-workshop/>)

2019 Bayesian modelling with the Stan probabilistic programming language (Columbia University; <https://github.com/mvuorre/ulam>)

2018 Hierarchical modelling of change over time (University of Aberdeen)

2017 Within-subject mediation analysis for experimental data in cognitive psychology and neuroscience (Rutgers University; <https://github.com/mvuorre/2017-rutgers-mediation>)

Teaching Assistantships

2018 Statistics for Behavioral Scientists (Columbia University)

2017 Introduction to Statistical Modeling in Psychology (Columbia University)

2016 Analysis of Change (Columbia University)

The Science of Psychology (Columbia University)

2015 Experimental Psychology: Human Behavior (Columbia University)

2014 The Science of Psychology (Columbia University)

2013 Visual Perception (Victoria University of Wellington)

Introduction to Psychology (Victoria University of Wellington)

2011 Introduction to Psychology (Victoria University of Wellington)

Service to the profession

Panels organized

Metacognition of agency workshop (2015, May), co-organizer and co-chair.

Peer review service

Advances in Methods and Practices in Psychological Science

Acta Psychologica

Attention, Perception, & Psychophysics

International Journal of Psychology

Journal of Adolescence

Journal of Consciousness Studies

Journal of the Experimental Analysis of Behavior

Psychology of Consciousness

Languages

Natural languages

Finnish (native)

English (fluent)

Swedish (basic)

Programming languages

R

Python

Stan

HTML & CSS & JavaScript