

## Elisa Filevich

Junior Group Leader  
<http://metamotorlab.filevich.com>

Argentinian, Born 23.08.1983  
Children: Arthur, born 10.2017

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### Research Profile

I am a cognitive neuroscientist investigating the neural correlates of consciousness. I focus on different aspects of motor awareness and subjective experiences associated with it: the awareness of intentions (volition), the awareness of control (agency) and motor experience (motor metacognition).

### Academic Appointments

<b>2017 - now</b>	<b>Junior Group Leader - Funded by "Freigeist" Fellowship</b> Bernstein Center for Computational Neuroscience and Institute of Psychology, Humboldt-Universität zu Berlin, Germany.
<b>2015 - 2017</b>	<b>Scientific employee (Seminar instructor)</b> Faculty of Sports Sciences, Leipzig University, Germany. <b>Guest Researcher</b> Max Planck Institute for Human Development, Berlin, Germany.
<b>2012 - 2015</b>	<b>Postdoctoral fellow. Structural Plasticity group</b> Max Planck Institute, Berlin, Germany Team Leader: Dr. Simone Kühn

### Education and Training

<b>2008 - 2012</b>	<b>PhD. Institute of Cognitive Neuroscience.</b> Intentional inhibition and human voluntary action. University College London. UK Advisor: Prof. Patrick Haggard
<b>2012</b>	<b>Visiting Scholar. Consciousness and Computation Laboratory</b> Columbia University, NY, USA Advisor: Asst. Prof. Hakwan Lau
<b>2005 - 2007</b>	<b>Undergraduate researcher. Laboratory of Molecular and Cellular Biology (LBMC).</b> University of Buenos Aires, Argentina Advisor: Prof. Osvaldo D. Uchitel
<b>2005</b>	<b>Undergraduate researcher. Biochemistry and Molecular Biology.</b> Colorado State University, CO, USA Advisor: Prof. James Bamberg
<b>2001 - 2007</b>	<b>Licenciatura (equivalent to German "Diplom") in Biological Sciences.</b> University of Buenos Aires, Argentina. Final grade: 8.6/10

## Awards, Fellowships, and Research Grants

<b>2018</b>	<b>Research Training Group (RTG).</b> Deutsche Forschungsgemeinschaft (DFG) RTG 2386 "Extrospection". Role: Principal Investigator. Total funding for the cluster of 10 Principal Investigators: over 1.530.000 €
<b>2016</b>	<b>Freigeist Fellowship.</b> VolkswagenStiftung, Germany. Grant number 91620, 5 years, 919800 €
<b>2008</b>	<b>Four-year PhD Studentship in Neuroscience.</b> Wellcome Trust, UK. Grant number 086123/Z/08/Z, 4 years, over 120000 GBP
<b>2008</b>	<b>Overseas Research Scholarships (ORS).</b> Higher Education Funding Council for England (HEFCE). Fee funding to cover the difference between Overseas and UK/ EU tuition fees.
<b>2006</b>	<b>Undergraduate scholarship.</b> ("Beca estímulo") University of Buenos Aires, Argentina.

## Pre-prints

<b>2019</b>	<b>Filevich, E.,</b> Koß, C., & Faivre, N. Response-related signals increase confidence but not metacognitive performance. BioRxiv, 735712. <a href="https://doi.org/10.1101/735712">https://doi.org/10.1101/735712</a>
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## Publications in Peer-Reviewed Journals

\* Indicates equal contributions

Total number of peer-reviewed publications: 16

h-index: 11

Total number of citations (source: Google Scholar): 491

<b>2020</b>	<b>Filevich, E.,</b> Forlim, C. G., Fehrman, C., Forster, C., Paulus, M., Shing, Y. L., & Kühn, S. (2020). I know that I know nothing: Cortical thickness and functional connectivity underlying meta-ignorance ability in pre-schoolers. <i>Developmental Cognitive Neuroscience</i> , 41, 100738.  Rahnev, D., Desender, K., Lee, A.L.F., Adler, W.T., Aguilar-Lleyda, D., Akdoğan, B., ..., Zylberberg, A. (2020) The Confidence Database. <i>Nat Hum Behav. In Press</i>
<b>2019</b>	Karch, J. D., <b>Filevich, E.,</b> Wenger, E., Lisofsky, N., Becker, M., Butler, O., ... Kühn, S. (2019). Identifying predictors of within-person variance in MRI-based brain volume estimates. <i>NeuroImage</i> , 200, 575–589.
<b>2018</b>	Faivre, N., <b>Filevich, E.,</b> Solovey, G., Kühn, S., Blanke, O. Behavioural, modeling, and electrophysiological evidence for domain-generalty in human metacognition. <i>The Journal of Neuroscience</i> , 0322–17.
<b>2017</b>	<b>Filevich, E.*,</b> Horn, S. S*, & Kühn, S. Within-person adaptivity in frugal judgments from memory. <i>Psychological Research</i> 83 (3), 613-630  <b>Filevich E.*,</b> Lisofsky, N.*, Becker, M., Butler, O., Lochstet, M., Martensson, J., Wenger, E., Lindenberger, U. and Kühn, S. Day2day: Investigating daily variability of magnetic resonance imaging measures over half a year. <i>BMC Neuroscience</i> , 18:65.

	<p>Pannunzi, M., Hindriks, R., Bettinardi, R. G., Wenger, E., Lisofsky, N., Martensson, J., Butler, O., <b>Filevich, E.</b>, Becker, M., Lochstet, M., Kühn S., Deco, G. Resting-state fMRI correlations: from link-wise unreliability to whole brain stability. <i>NeuroImage</i> 157:250-262</p> <p><b>Filevich, E.</b>, Becker, M., Wu, YH. &amp; Kühn, S. Seeing double: Exploring the phenomenology of self-reported absence of rivalry in bistable pictures. <i>Frontiers in Human Neuroscience</i> 11:301.</p>
<b>2015</b>	<p>Lange, K., Kühn, S., <b>Filevich, E.</b>, "Just another tool for online studies" (JATOS): An easy solution for setup and management of web servers supporting online studies. <i>PLoS one</i>, 10(6).</p> <p><b>Filevich, E.</b>, Dresler, M., Brick, T. R., &amp; Kühn, S. Metacognitive mechanisms underlying lucid dreaming. <i>The Journal of Neuroscience</i>, 35(3), 1082–1088.</p>
<b>2013</b>	<p><b>Filevich, E.</b>, Vanneste, P., Brass, M., Fias, W., Haggard, P. Kühn, S. Brain correlates of subjective freedom of choice. <i>Consciousness and Cognition</i> 22 (4), 1271-1284</p> <p><b>Filevich, E.</b>, &amp; Haggard, P. Persistence of internal representations of alternative voluntary actions. <i>Frontiers in Cognition</i>, 4: 202.</p> <p><b>Filevich, E.</b>, Kühn, S., &amp; Haggard, P. There is no free won't: Antecedent brain activity predicts decisions to inhibit. <i>PLoS one</i>, 8(2), e53053.</p>
<b>2012</b>	<p><b>Filevich, E.</b>, Haggard, P. Grin and bear it! Neural consequences of a voluntary decision to act or inhibit action. <i>Experimental Brain Research</i>, 223(3), 341–351.</p> <p><b>Filevich, E.</b>, Kühn, S., Haggard, P. Negative Motor Phenomena in cortical stimulation: implications for inhibitory control of human action. <i>Cortex</i> 48(10), 1251-1261</p> <p><b>Filevich, E.*</b>, Kühn, S.*, Haggard, P. Intentional inhibition in human action: The power of "no." <i>Neuroscience and Biobehavioral Reviews</i>, 36(4), 1107–1118.</p>
<b>Book Chapters</b>	
<b>2014</b>	<p>Chambon, V. <b>Filevich, E.</b> Haggard, P. What is the human sense of agency, and is it metacognitive? In Stephen M. Fleming and Chris Frith (Eds). <i>The cognitive neuroscience of metacognition</i>. Springer</p>
<b>2012</b>	<p><b>Filevich, E.</b> Haggard, P. Components of voluntary action. In Hallett, M., Lang, A. E., Jankovic, J., Fahn, S., Halligan, P. W., Voon, V., &amp; Cloninger, C. R. (Eds.). <i>Psychogenic Movement Disorders and Other Conversion Disorders</i>. Cambridge University Press.</p>

## Invited Talks

2020	<b>LPC Lab Seminar, Aix-Marseille Université.</b> Motor Metacognition: How much does our brain know about the way it moves the body?
2019	<b>Workshop on Metacognition. Laboratoire de Psychologie et NeuroCognition (LPNC), Grenoble, France.</b> Motor metacognition: How does our brain know how our body moves? <b>Freie Universität Berlin - CCNB Seminar Series. Germany.</b> Relationships between domains of metacognitive monitoring
2018	<b>Department of Experimental Psychology (Zangwill Club), Cambridge University, UK.</b> Metacognition of internally generated processes
2017	<b>Geneva University (Brain and Cognition Seminar), Switzerland.</b> Metacognition of internally generated processes <b>Experimental Psychology Society (EPS) Meeting, Belfast, UK.</b> Domain-generalty in perceptual metacognition
2014	<b>Department of Psychology, Lund University, Sweden.</b> What we can learn from introspection

## Presentations in Conferences

2019	<b>Association for the Scientific Study of Consciousness (ASSC23),</b> London, Canada. Metacognitive access to high- and low-level aspects of motor control. (Plenary Symposium)
2018	<b>Association for the Scientific Study of Consciousness (ASSC22),</b> Cracow, Poland. The brain basis of meta-ignorance in pre-schoolers
2017	<b>Association for the Scientific Study of Consciousness (ASSC21),</b> Beijing, China. Metacognition of movement: the case of facial expressions.
2014	<b>Association for the Scientific Study of Consciousness (ASSC19),</b> Brisbane, Australia. Lucid dreaming, introspection and awareness of mind-wandering: behavioural and brain bases <b>Organization for Human Brain Mapping (OHBM),</b> Hamburg, Germany. Faces and houses perceived simultaneously in monocular rivalry images: fMRI evidence
2012	<b>Society for Neuroscience (SfN),</b> New Orleans, USA. There is no free won't: antecedent brain activity predicts decisions to inhibit <b>Association for the Scientific Study of Consciousness (ASSC16),</b> Brighton, UK. Brain correlates of subjective freedom of choice

<b>2007</b>	<b>Argentine Society for Neuroscience Research (SAN)</b> , Argentina. Coupling of the Type-L Voltage Dependent Calcium Channel to membrane endocytosis in the mouse neuromuscular junction. ("Estudio del acoplamiento del canal de calcio dependiente de voltaje de tipo L a la endocitosis de membrana en la unión neuromuscular de ratón.")
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#### Workshops Led

<b>2020</b>	<b>Running experiments online.</b> 2.5 hours, Berlin School of Mind and Brain and Bernstein Center for Computational Neuroscience.
<b>2019</b>	<b>Running web-based experiments in consciousness research.</b> 3 hours, Association for the Scientific Study (ASSC23), London, Canada.
<b>2018</b>	<b>Running experiments online with JATOS.</b> 2.5 hours, MRC-Cognition and Brain Unit, Cambridge University, UK.
<b>2016</b>	<b>Running experiments online with JATOS.</b> 5 hours, Graduate School for Mind and Brain, Humboldt-Universität zu Berlin, Germany

#### Teaching

<b>2019</b>	<b>Seminar series: Neural Bases of Metacognition.</b> MSc, Berlin School of Mind and Brain. Humboldt-Universität zu Berlin. Course size: 9 students. Mean overall student rating: 5.11 (Minimum: 1 - Maximum: 6).
<b>2018-2019</b>	<b>Contribution to lecture series. Neural bases of metacognition.</b> MSc course "Models of Neural Systems", Bernstein Center for Computational Neuroscience. Course size: ca. 30 students. Latest mean overall student rating: 1.8 (Minimum: 5 - Maximum: 1).  <b>Contribution to lecture series ("Ringvorlesung"). Neural bases of metacognition.</b> BSc, Institute for Psychology, Humboldt-Universität zu Berlin.
<b>2015-2016</b>	<b>Seminar Instructor, Sport Psychology.</b> Leipzig University, Germany.
<b>2010</b>	<b>Laboratory demonstrator, First year Psychology.</b> University College London, UK.

#### Student Supervision

<b>2017 - now</b>	<b>Supervision of PhD projects.</b> Total to date (ongoing): 2
<b>2018 - now</b>	<b>Secondary supervision of PhD projects.</b> Total to date (ongoing): 3
<b>2019 - now</b>	<b>Supervision of MSc theses projects.</b> Total to date: 1
<b>2018 - now</b>	<b>Supervision of 8-week rotation projects.</b> Total to date: 7
<b>2010 - 2011</b>	<b>Informal supervision of 3-months projects for an MSc in Neuroscience course.</b> Total: 3

## Ad-hoc Reviewing

<b>2011-now</b>	<b>Scientific Journals</b> Brain; Brain and Neuroscience Advances; Cognition; Cortex; Experimental Brain Research; Frontiers in Consciousness Research; Journal of Neurophysiology; Journal of Neuroscience; Neuroimage; Neuropsychologia; Neuroscience and Biobehavioural Reviews; PLoS one; Proceedings of the National Academy of Sciences (PNAS); Psychology of Consciousness: Theory, Research, and Practice; Psychonomic Bulletin and Review; Scientific Reports; Social Cognitive and Affective Neuroscience (SCAN).
<b>2019</b>	<b>Funding agencies</b> Wellcome Trust, UK National Science Center Poland (NCN) Klaus-Tschira Boost fund - German Scholars Organization

## Other Contributions

<b>2019 - now</b>	<b>Team leader in the <i>Neural Architecture of Consciousness</i> consortium. Metacognition Working Group.</b> Approximately 15 active members ( <a href="https://neuralarchcon.org/">https://neuralarchcon.org/</a> ).
<b>2019</b>	<b>Member of Scientific Committee – Association for the Scientific Study of Consciousness (ASSC)</b>
<b>20178 - now</b>	<b>Member of ProFiL Network.</b> Professional network, training and coaching for women in natural and social sciences working in universities in Berlin.
<b>2014 - now</b>	<b>Software development.</b> Active development of an open-source software tool to run experiments online. <a href="http://www.jatos.org">www.jatos.org</a>
<b>2010-2012</b>	<b>F1000</b> - Comments and recommendations on scientific articles

## Additional Professional Training

<b>2018</b>	<b>Workshop series from Wissenschaftsmanagement (ZWM): “Professionals in Science”.</b> Included Communication and Conflict Management; Conducting Interviews; Research Project Management; Leadership.
<b>2018</b>	<b>Workshop series from the ProFiL program (TU Berlin).</b> Included Career Planning; Faculty Hiring Procedures in Germany and Abroad; Leadership; Academic Self-management; Writing Grant Applications.

## Public Engagement

<b>2015</b>	<b>The Long Night of the Sciences.</b> Berlin, Germany (“Lange Nacht der Wissenschaften”) – Science outreach event.
<b>2007</b>	<b>The Basement of Perception</b> - Cognitive science outreach event. Museum of Natural History, Buenos Aires, Argentina.