Elisa Filevich

Junior Group Leader
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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

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

Education and Training

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

Awards, Fellowships, and Research Grants

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

Pre-prints

Publications in Peer-Reviewed Journals

* Indicates equal contributions
Total number of peer-reviewed publications: 17
h-index: 11
Total number of citations (source: Google Scholar): 551

2020	**Filevich, E.**, Koß, C., & Faivre, N. Response-related signals increase confidence but not metacognitive performance. *eNeuro*. (*In Press*) ENEURO.0326-19.2020.
	Filevich, E., 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. *Developmental Cognitive Neuroscience*, 41, 100738.
	Rahnev, D., Desender, K., Lee, A.L.F., Adler, W.T., Aguilar-Lleyda, D., Akdoğan, B., …, Zylberberg, A. (2020) The Confidence Database. *Nat Hum Behav*. 4, 317–325
2019	Karch, J. D., **Filevich, E**., Wenger, E., Lisofsky, N., Becker, M., Butler, O., … Kühn, S. (2019). Identifying predictors of within-person variance in MRI-based brain volume estimates. *NeuroImage*, 200, 575–589.
2018	Faivre, N., **Filevich, E.**, Solovey, G., Kühn, S., Blanke, O. Behavioural, modeling, and electrophysiological evidence for domain-generality in human metacognition. *The Journal of Neuroscience*, 0322–17.
2017	**Filevich, E.***, Horn, S. S*., & Kühn, S. Within-person adaptivity in frugal judgments from memory. *Psychological Research* 83 (3), 613-630
	Filevich E.*, 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. *BMC Neuroscience*, 18:65.

Pannunzi, M., Hindriks, R., Bettinardi, R. G., Wenger, E., Lisofsky, N., Martensson, J., Butler, O., **Filevich, E**., Becker, M., Lochstet, M., Kühn S., Deco, G. Resting-state fMRI correlations: from link-wise unreliability to whole brain stability. *NeuroImage* 157:250-262

Filevich, E., Becker, M., Wu, YH. & Kühn, S. Seeing double: Exploring the phenomenology of self-reported absence of rivalry in bistable pictures. *Frontiers in Human Neuroscience* 11:301.

2015

Lange, K., Kühn, S., **Filevich, E**., "Just another tool for online studies" (JATOS): An easy solution for setup and management of web servers supporting online studies. *PLoS one,* 10(6).

Filevich, E., Dresler, M., Brick, T. R., & Kühn, S. Metacognitive mechanisms underlying lucid dreaming. *The Journal of Neuroscience*, 35(3), 1082–1088.

2013

Filevich, E., Vanneste, P., Brass, M., Fias, W., Haggard, P. Kühn, S. Brain correlates of subjective freedom of choice. *Consciousness and Cognition* 22 (4), 1271-1284

Filevich, E., & Haggard, P. Persistence of internal representations of alternative voluntary actions. *Frontiers in Cognition*, 4: 202.

Filevich, E., Kühn, S., & Haggard, P. There is no free won't: Antecedent brain activity predicts decisions to inhibit. *PLoS one*, 8(2), e53053.

2012

Filevich, E., Haggard, P. Grin and bear it! Neural consequences of a voluntary decision to act or inhibit action. *Experimental Brain Research*, 223(3), 341–351.

Filevich, E., Kühn, S., Haggard, P. Negative Motor Phenomena in cortical stimulation: implications for inhibitory control of human action. *Cortex* 48(10), 1251-1261

Filevich, E.*, Kühn, S.*, Haggard, P. Intentional inhibition in human action: The power of "no." *Neuroscience and Biobehavioral Reviews*, 36(4), 1107–1118.

Book Chapters

2014

Chambon, V. **Filevich, E.** Haggard, P. What is the human sense of agency, and is it metacognitive? In Stephen M. Fleming and Chris Frith (Eds). The cognitive neuroscience of metacognition. Springer

2012

Filevich, E. Haggard, P. Components of voluntary action. In Hallett, M., Lang, A. E., Jankovic, J., Fahn, S., Halligan, P. W., Voon, V., & Cloninger, C. R. (Eds.). Psychogenic Movement Disorders and Other Conversion Disorders. Cambridge University Press.

Dissertation

2013

Filevich, E. Volition and inhibition: Objective and subjective aspects of human volitional control. Doctoral thesis, UCL (University College London). https://discovery.ucl.ac.uk/id/eprint/1383056/

Invited Talks

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

Presentations in Conferences (first author only)

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

2007	**Argentine Society for Neuroscience Research (SAN)**, 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.")

Workshops Led

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

Teaching

2019	**Seminar series: Neural Bases of Metacognition.** 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).
2018 – 2019	**Contribution to lecture series. Neural bases of metacognition.** 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). **Contribution to lecture series ("Ringvorlesung"). Neural bases of metacognition.** BSc, Institute for Psychology, Humboldt-Universität zu Berlin.
2015 – 2016	**Seminar Instructor, Sport Psychology**. Leipzig University, Germany.
2010	**Laboratory demonstrator, First year Psychology.** University College London, UK.

Student Supervision

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

Ad-hoc Reviewing

2011 – now	**Scientific Journals** 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).
2019	**Funding agencies** Wellcome Trust, UK National Science Center Poland (NCN) Klaus-Tschira Boost fund - German Scholars Organization

Other Contributions

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

Additional Professional Training

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

Public Engagement

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