CURRICULUM VITAE

Flavia Filimon

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ACADEMIC POSITIONS

Research Scientist **(September 1. 2016 - present)**	Max Planck Institute for Human Development, Berlin, Germany
Research Fellow (June 1. 2013 - August 31. 2016)	Max Planck Institute for Human Development, Berlin, Germany; (co-funded by Berlin School of Mind & Brain, Humboldt University, Berlin, Germany from June 1. 2013 - June 1. 2015)
Visiting Research Fellow (June 15. 2012 - June 1. 2013)	Division of Psychology and Language Sciences University College London, UK
Research Scientist (Nov. 1. 2010 - June 15. 2012)	Department of Education and Psychology, Freie Universität Berlin, Berlin Germany (lab relocated from Max Planck Institute)
Postdoctoral Scholar (Nov. 1. 2008 - Oct 31. 2010)	Max Planck Institute for Human Development Berlin, Germany

EDUCATION

Ph.D., Cognitive Science	*University of California, San Diego, USA* (2008)
M.S., Cognitive Science	*University of California, San Diego, USA* (2004)
B.A. (**Honours,** 1st class), **Psychology and French**	*University of Auckland*, *New Zealand* (2001)

AWARDS, HONORS, AND FELLOWSHIPS

2013-2015	Postdoctoral Fellowship, Berlin School of Mind & Brain, Humboldt University Berlin, Germany (competitively awarded; 2 years).
2007-2008	NSF IGERT *Vision and Learning in Humans and Machines* Fellowship University of California, San Diego (full tuition; 1 year).

2007	UCLA Advanced Neuroimaging Summer School Fellow (competitively awarded; paid room and board; 2 weeks).
2002-2007	Graduate Student Researcher, UCSD (with Dr. Martin I. Sereno).
2004-2007	Four-time Recipient of Teaching Excellence Award (highest T.A. award) University of California, San Diego.
2003	Recipient of Superior Teaching Award (second-highest T.A. award) University of California, San Diego.
2001	University of Auckland, N.Z., Masters Scholarship (declined by me).
2000-2001	Summer Research Scholarship, Research School of Biological Sciences, Australian National University, Canberra, Australia (3 months).
1999-2000	University of Auckland, N.Z., Honours Scholarship (full tuition, 1 year).
1999	Senior Prize in Psychology (University of Auckland, New Zealand).
1999	Senior Scholarship in French (University of Auckland, New Zealand).
1997-1999	University of Auckland Alumni Association Undergraduate Scholarship (full tuition for Bachelor degree, 3 years).
1996	1st prize in New Zealand Alliance Française National French Competition (national winner). (1 month in Paris, France; room & board paid).

PUBLICATIONS (citations = Google Scholar citations, March 2017)

Filimon, F; Nelson, JD (joint 1st author); Sejnowski, TJ; Sereno, MI; Cottrell, GW (in revision). Ventral Striatum Dissociates Between Information Expectation, Reward Anticipation, and Reward Receipt.

Wu, CM; Meder, B; **Filimon, F**; Nelson, JD (in press). Asking better questions: How presentation formats influence information search. ***Journal of Experimental Psychology: Learning, Memory, and Cognition***.

Filimon, F (2015). Are all spatial reference frames egocentric? Reinterpreting evidence for allocentric, object-centered, or world-centered reference frames. ***Frontiers in Human Neuroscience*** 9:648, 1-21. doi: 10.3389/fnhum.2015.00648. **(8 citations)**

Filimon, F; Rieth, CA (joint 1st author); Sereno, MI; Cottrell, GW (2014). Observed, Executed, and Imagined Action Representations can be decoded from Ventral and Dorsal Areas. ***Cerebral Cortex*** 25(9):3144-3158. **(20 citations)**

Filimon, F; Philiastides, MG; Nelson, JD; Kloosterman, NA; Heekeren, HR (2013). How embodied is perceptual decision making? Evidence for separate processing of perceptual and motor decisions. ***Journal of Neuroscience*** 33(5):2121-2136. **(39 citations)**

Filimon, F (2010). Human Cortical Control of Hand Movements: Parietofrontal Networks for Reaching, Grasping, and Pointing. ***The Neuroscientist*** 16(4), 388-407. **(127 citations)**

Filimon, F; Nelson, JD; Huang, R-S; Sereno, MI (2009). Multiple parietal reach regions in humans: cortical representations for visual and proprioceptive feedback during online reaching. ***Journal of Neuroscience***, 29 (9):2961-2971. **(159 citations)**

Filimon, F (2008). Multisensory and Sensorimotor Representations for Action in Human Posterior Parietal Cortex investigated with functional MRI. Doctoral Dissertation. University of California, San Diego.

Filimon, F; Nelson, JD; Hagler, DJ, Sereno, MI (2007). Human cortical representations for reaching: Mirror neurons for execution, observation, and imagery. ***NeuroImage*** 37, 1315-1328. **(343 citations)**

Filimon, F; Nelson, JD; Sereno, MI (2006). Egocentric and allocentric reference frames for eye movements-an fMRI study. ***Journal of Vision*** 6(6), 979-979.

Bryant, D; **Filimon, F**, Gray, RD (2005). Untangling our past: Languages, trees, splits and networks. (book chapter). In: ***The evolution of cultural diversity***, Ruth Mace, Clare J. Holden and Stephen Shennan (eds.), UCL press. **(125 citations)**

(Submitted & In preparation):

Kloosterman, NA; **Filimon, F**; Philiastides, MG; van Zuijen, T; Werner, A; Lindenberger, U; Heekeren, H. (in revision). Human Prefrontal Cortex Represents Task-Relevant Auditory Sensory Evidence During Perceptual Decision Making.

Filimon, F; Nelson, JD; Kothiyal, A; Lennan, C; Gigerenzer, G (in preparation). Distinct neural substrates underlie reward-based decisions in visual, auditory, and cognitive probabilistic environments learned via experience: an event-related fMRI study.

Filimon, F; Nelson, JD; Schiebener, J; Brand, M; Volz, K (in preparation). Probabilistic perceptual categorization decisions rely on distinct neural activations when probabilities are learned from experience as opposed to description.

Filimon, F; Nelson, JD; Huang, R-S; Sereno, MI (in preparation). Overlap between tactile and visual spatial representations in human parietal cortex.

Filimon, F; Huang, R-S; Nelson, JD; Sereno, MI (in preparation). Non-visual arm, hand, and finger movement activations in human posterior parietal cortex.

CONFERENCE ABSTRACTS, TALKS, POSTERS

Filimon, F (2016, July). Action, Perception, and Decision Making: when are cognitive and perceptual processes 'embodied' in motor circuits? (Talk). Japan Neuroscience Society, Yokohama, Japan. Program No. S2-E-3-4.

Filimon, F; Kothiyal, A; Nelson, JD; Gigerenzer, G (2015, Oct). Distinct neural substrates underlie reward-based decisions in visual, auditory, and cognitive probabilistic environments learned via experience: an event-related fMRI study. (Poster). Society for Neuroscience annual meeting, Chicago, Illinois.

Nelson, JD; **Filimon, F**; Schiebener, J; Brand, M; Volz, K (2015, Oct). Probabilistic classification decisions in the perceptual domain rely on distinct neural activations when probabilities are learned from experience as opposed to description. (Poster). Society for Neuroscience annual meeting, Chicago, Illinois.

Wu, C; Meder, B; Nelson, JD; **Filimon, F** (2015, Aug). The effect of Presentation Formats on Rational Information Search. (Talk). Subjective Probability, Utility and Decision Making (SPUDM) conference, Budapest, Hungary.

Filimon, F; Rieth, CA; Sereno, MI; Cottrell, GW (2013). Distributed action representations revealed with multi-voxel pattern analysis. (Poster). Society for Neuroscience, San Diego, USA. Program No. 264.15.

Filimon, F (2012, June). Does multi-voxel pattern analysis solve the reverse inference problem? On decoding fMRI activations and 'mind reading'. (Talk). Annual Summer Interdisciplinary Conference (ASIC), Cala Gonone, Sardinia, Italy.

Filimon, F; Nelson, JD; Cottrell, GW; Sereno, MI; Sejnowski, TJ (2012, Apr). The value of information overlaps with cortical and subcortical reward structures. (Talk). TeaP (Experimental Psychology) Conference, University of Mannheim, Germany.

Filimon, F, Kloosterman, NA, Nelson, JD, Philiastides, MG, Heekeren, HR (2011). Perceptual decision making: disentangling perceptual and motor decisions with event-related fMRI. (Talk). Annual Summer Interdisciplinary Conference (ASIC), Caldes de Boí, Spain.

Filimon, F, Nelson, JD, Sejnowski, TJ, Sereno, MI, Cottrell, GW (2010). Expected value of information overlaps with reward circuits in humans. (Talk). Society for Neuroscience, San Diego, USA. Program No. 129.10.

Filimon, F, Kloosterman, NA, Nelson, JD, Philiastides, MG, Heekeren, HR (2010). Disentangling sensory integration and motor planning during perceptual decision making: an event-related fMRI study. (Poster). Cognitive Neuroscience Society, Montréal, Canada. Program No. H 69.

Filimon, F, Nelson, JD, Kloosterman, NA, Philiastides, MG, Heekeren, HR (2009). Sensory and motor correlates of perceptual decision making investigated with fMRI. (Talk). Society for Neuroscience, Chicago, USA. Program No. 122.1.

Filimon, F (2008). Non-spatial posterior parietal activations for finger, hand, and arm movements in humans. (Poster). Society for Neuroscience, Washington, D.C., USA. Program No. 854.16.

Filimon, F, Nelson, JD, Sereno, MI (2007). Tactile spatial exploration in humans investigated with fMRI. (Poster). Society for Neuroscience, San Diego, USA. Program No. 74.11.

Filimon, F, Nelson, JD, Sereno, MI. (2007). Human fMRI of tactile spatial representations. (Poster). Vision Science Society annual meeting, Sarasota, Florida, USA. Published in: Journal of Vision, 7(9): 301, 301a, http://journalofvision.org/7/9/301

Filimon, F, Nelson, JD, Sereno, MI (2006). Egocentric and allocentric reference frames for eye movements - an fMRI study. (Poster). Vision Science Society annual meeting, Sarasota, Florida, USA. Published in: Journal of Vision, 6(6): 979a, http://journalofvision.org/6/6/979

Nelson, JD, Cottrell, GW, **Filimon, F**, Sejnowski, T (2005). (Poster). Optimal experimental design models of naive human information acquisition. Neural Information Processing Systems (NIPS) workshop, Whistler, Canada.

Sadaghiani, S, **Filimon, F**, Hagler, DJ, Sereno MI (2005) Spatiotemporal brain-activation pattern during visually-guided reaching using cortical surface-based event-related methods. (Talk). Society for Neuroscience, Washington D.C. Program No. 363.7.

Filimon, F, Nelson, JD, and Sereno, MI (2005). Mirror neurons for observation, mental simulation, and execution of reaching movements in humans. (Talk). Annual Summer Interdisciplinary Conference (ASIC), Briançon, France. http://www.cogs.indiana.edu/asic/2005/abstracts.html

Filimon, F, Nelson, JD, & Sereno, MI (2005). Parietal cortex involvement in visually-guided, non-visually guided, observed, and imagined reaching, compared to saccades. (Talk). Vision Science Society annual meeting, Sarasota, Florida, USA. Published in: Journal of Vision, 5(8): 629a, http://journalofvision.org/5/8/629

Filimon, F, Nelson, JD, and Sereno, MI (2005). Human parietal activations to visually guided and non-visually guided reaching versus saccades. (Poster). Cognitive Neuroscience Society, New York, NY. Program No. A 233.

Filimon, F, and Sereno, MI (2004). Direct reaching and eye movements to visual targets studied with fMRI. (Talk). Society for Neuroscience, San Diego, USA. Program No. 603.14.

Filimon, F, Hagler, DJ, and Sereno, MI (2004). Overlapping neural substrates for executed, observed, and imagined reaching movements: a functional Magnetic Resonance Imaging study. (Poster). Cognitive Neuroscience Society, San Francisco, USA. Program No. B 128.

INVITED TALKS

Economic decision making across sensory modalities: heuristics vs. expected utility models. November 11, 2016. Invited talk at the conference "I neuroni delle scelte: I processi decisionali e la neuroeconomia", Prato, Italy.

Motor and cognitive functions of the parietal lobe: Perception for Action, Decision Making & Embodiment. July 25, 2016. Inivted talk at CiNet Institute, Osaka, Japan.

From Perception for Action to Cognition. March 30, 2016, Department of Psychology, Florida Atlantic University, USA.

The Value of Information: disentangling information and reward with fMRI. March 18, 2016. 8th Cracow Cognitive Science Conference on Intelligence, pre-conference lecture, Institute of Philosophy, Jagiellonian University Krakow, Poland.

Neural substrates of probabilistic perceptual decisions based on experienced probabilities vs. descriptive statistics. February 6, 2015, at the Center for Logic, Language, and Cognition, University of Turin, Italy. Workshop on: Information, Search, and Causes: Rational and cognitive approaches.

Disentangling perceptual and motor decisions using event-related fMRI. February 26, 2014, at Department of Psychology, Swansea University, UK.

How spatial reference frames are represented in the brain. May 19, 2014, at Café Scientifique (Wissenswerkstatt), Berlin, Germany.
http://wissenswerkstatt-berlin.de/activities/specialevents/cafe-scientifique/
http://www.meetup.com/de/The-Bit-and-the-Cosmos/events/160501912/

Experience-based versus Description-based perceptual decisions. May 14, 2014, at MRI group at the Max Planck Institute for Biological Cybernetics, Tübingen, Germany.

Cognitive, Sensory, and Motor Functions of the Posterior Parietal Cortex. March 22, 2013, at Centre for Vision and Visual Cognition, Department of Psychology, Durham University, UK.

How embodied are perceptual decisions? Disentangling perceptual and motor decisions. May 8, 2012, at Department of Biological Psychology and Neuropsychology, University of Hamburg, Germany.

Multisensory sensorimotor representations in posterior parietal cortex. March 27, 2008, at Texas Medical School at Houston, USA.

MEMBERSHIP AND PROFESSIONAL ACTIVITIES

Society for Neuroscience
Human Brain Mapping
Society for Cognitive Neuroscience
Vision Sciences Society

Co-Editor of *Cognitive Science Online*, an online journal produced by the Department of Cognitive Science, University of California, San Diego. (2005-2006; 2007) (http://cogsci-online.ucsd.edu)

Reviewer (ad-hoc): Journal of Neuroscience, Cerebral Cortex, NeuroImage, Journal of Cognitive Neuroscience, Journal of Neurophysiology, Experimental Brain Research, PLOS One, Philosophical Psychology

RESEARCH EXPERIENCE

Postdoctoral & Research Fellow /Scientist
(2008-present)

Max Planck Institute for Human Development, Berlin; University College London; Free University Berlin
functional and structural MRI research
experiment design, data collection and analysis
certified MRI operator for Siemens 3T systems
used FSL, FreeSurfer, AFNI, Matlab, Unix scripting, ILAB

Graduate Research Assistant
(2002-2008)

University of California, San Diego
Department of Cognitive Science
functional and structural MRI research
experiment design, data collection and analysis
certified MRI operator for Varian (4T, 3T), GE 3T systems
used FreeSurfer, AFNI, Matlab, Final Cut Pro
created and edited videos of hand actions

Undergraduate Research Assistant
(2000-2001)

University of Auckland, New Zealand
Department of Psychology
Electroencephalography recordings
(high-density 128-electrode caps)
used DataView software

TEACHING EXPERIENCE (as instructor with full responsibility for course)

Systems Neuroscience
(2008)

University of California, San Diego
Department of Cognitive Science
(upper division undergraduate course, 125 students)
(PhD students were also assigned to take my course)
designed and gave lectures
designed and gave exams

fMRI bootcamp
(2007, 2008)

University of California, San Diego
NSF IGERT program on
Vision & Learning in Humans & Machines
"bootcamp" weeklong course on physics of (f)MRI
fMRI experiment design
fMRI data analysis with FreeSurfer and AFNI

TEACHING EXPERIENCE (as teaching assistant or guest instructor)

Cognitive Science
(2015)

Humboldt University Berlin
Berlin School of Mind and Brain (Ph.D. program)

	guest lectures on decision making, value of information
Cognitive Neuroscience (2013-2014)	Humboldt University Berlin Berlin School of Mind and Brain (master's program) guest lecture on somatosensory system designed lectures for discussion sections prepared handouts and online material helped select course readings, and design exam
Systems Neuroscience (2002-2007)	University of California, San Diego Department of Cognitive Science led discussion sections and review sections, prepared handouts and online material held office hours, graded exams received Superior Teaching Award for 2003, and Teaching Excellence award for 2004, 2005, 2006, 2007
Cognitive Neuroscience (2002)	University of California, San Diego Department of Cognitive Science led discussion sections, held office hours, helped design exams, graded exams
IGERT NSF bootcamp (2004, 2006)	University of California, San Diego supervised week-long fMRI lab project fMRI data analysis
Evolution, Behavior, Cognition (2001)	University of Auckland, New Zealand Department of Psychology held discussion sections, graded exams
Experimental Psychology (2001)	University of Auckland, New Zealand Department of Psychology held lab sessions, assisted with experiments; graded exams
Biopsychology (2000)	University of Auckland, New Zealand Division of Psychology and Language Sciences held discussion and laboratory sessions; graded exams.

OTHER

Languages spoken:
- native / bilingual proficiency: English, Romanian
- full professional proficiency: German, French
- elementary proficiency: Italian, Spanish