

CURRICULUM VITAE

Flavia Filimon

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ACADEMIC POSITIONS

Postdoctoral Research Fellow
(June 1. 2013 - present)

Berlin School of Mind and Brain
Humboldt University, Berlin, Germany

Visiting Research Fellow
(June 15. 2012 - June 1. 2013)

Division of Psychology and Language Sciences
University College London, UK.

Postdoctoral Scholar
(Nov. 1. 2008 - June 15. 2012)

Max Planck Institute for Human Development
Berlin, Germany (Nov. 1. 2008 - Oct. 31. 2010) &
Freie Universität Berlin, Germany
(Nov. 1. 2010 - June 15. 2012).

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

2007-2008: NSF IGERT *Vision and Learning in Humans and Machines* Fellowship
University of California, San Diego.

2007: UCLA Advanced Neuroimaging Summer School Fellow (competitively
awarded; board paid).

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.

- 1999 - 2000: University of Auckland, N.Z., Masters/Honours Scholarship.
- 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.
- 1996: 1st prize in New Zealand Alliance Française National French Competition.

PUBLICATIONS

Rieth, CA; **Filimon, F** (shared 1st-authorship); Sereno, MI; Cottrell, GW (in revision). Decoding distributed representations of observed, executed & imagined actions.

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.

Filimon, F (2010). Human Cortical Control of Hand Movements: Parietofrontal Networks for Reaching, Grasping, and Pointing. The Neuroscientist 16(4), 388-407. **(38 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. **(67 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. **(148 citations)**

Bryant, D., **Filimon, F.**, Gray, R. D. (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. **(66 citations)**

(In preparation):

Filimon, F; Nelson, JD; Sejnowski, TJ; Sereno, MI; Cottrell, GW (in preparation). Expected value of information overlaps with reward circuits in humans.

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

- Filimon, F.** (2012). Does multi-voxel pattern analysis solve the reverse inference problem? On decoding fMRI activations and 'mind reading'. Talk given at the Annual Summer Interdisciplinary Conference (ASIC), Cala Gonone, Sardinia, Italy.
- Filimon, F,** Kloosterman, NA, Nelson, JD, Philiastides, MG, Heekeren, HR (2011). Perceptual decision making: disentangling perceptual and motor decisions with event-related fMRI. Talk given at the 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. 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. 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. 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. 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. Society for Neuroscience, San Diego, USA. Program No. 74.11.
- Filimon, F,** Nelson, JD, Sereno, MI. (2007). Human fMRI of tactile spatial representations. 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. 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). 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. 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 given at the Annual Summer Interdisciplinary Conference (ASIC), Briançon, France.
<http://www.cogs.indiana.edu/asic/2005/abstracts.html#f>

Filimon, F, Nelson, JD, & Sereno, MI (2005). Parietal cortex involvement in visually-guided, non-visually guided, observed, and imagined reaching, compared to saccades. Talk given at 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. 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. 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. Cognitive Neuroscience Society, San Francisco, USA. Program No. B 128.

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) for the following journals:
 - Cerebral Cortex
 - NeuroImage
 - Journal of Cognitive Neuroscience
 - Journal of Neurophysiology
 - Experimental Brain Research
 - Philosophical Psychology

RESEARCH EXPERIENCE

Research Fellow/ Research Scientist: Max Planck Institute for Human Development & Freie Universität Berlin, Germany; University College London, UK

(2008 - present)

- functional Magnetic Resonance Imaging research, including: experimental design; data collection and analysis; MRI eye tracker setup and eye tracker data collection;
- trained operator on Siemens 3T scanner
- software used: FSL, FreeSurfer, AFNI, MATLAB, ILAB eye tracker software, Unix shell scripting.

Graduate Research Assistant, Department of Cognitive Science, UCSD, CA, USA

(2002 - 2008)

- functional and structural Magnetic Resonance Imaging research, including data collection and analysis, experiment design, stimulus design.
- certified MRI operator on Varian (4T, 3T) and GE (3T) scanners.

Software used:

- FreeSurfer and AFNI
- MATLAB
- Final Cut Pro: editing of video data

Undergraduate Research (University of Auckland, New Zealand)

(2000 - 2001)

- Electro-encephalography recordings (Electrical Geodesics high-density 128-electrode caps), including electrode placement, data collection and analysis.

Software used:

- DataView

TEACHING EXPERIENCE

• Instructor (full responsibility for course)

University of California, San Diego

(2007, 2008)

- * 2008: Systems Neuroscience, Department of Cognitive Science (upper-division undergraduate course; enrollment: 125 students)
- * 2007: IGERT Vision and Learning in Humans and Machines bootcamp. Gave “Physics of (f)MRI and Experiment Design” lecture; supervised week-long fMRI project and fMRI lab (FreeSurfer and AFNI)

• **Teaching Assistant**

University of California, San Diego

(2002 - 2007)

- upper-division undergraduate courses:

* 2002 - 2007: Systems Neuroscience, Department of Cognitive Science

- received Teaching Excellence Award for 2004, 2005, 2006, 2007, and Superior Teaching Award for 2003, based on excellent student evaluations.

- led discussion sections, prepared handouts and online material/website; held office hours and review sessions; graded exams.

* 2002: Cognitive Neuroscience, Department of Cognitive Science

- led discussion sections, held office hours

- helped design exams and tests; graded exams.

University of Auckland, New Zealand

(2000 - 2001)

* 2001: Evolution, Behavior, and Cognition, Department of Psychology

- held discussion sections; graded exams.

Experimental Psychology, Department of Psychology

- held laboratory sessions, assisted with running experiments; graded exams

* 2000: Biopsychology, Department of Psychology

- held discussion sections and laboratory sessions; graded exams.