

CURRICULUM VITAE

Flavia Filimon

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New Zealand Citizen

EDUCATION

Research Scientist (Nov. 2010 - present)	<i>Freie Universität Berlin, Germany Department of Psychology</i>
Research Fellow (2008 - 2010)	<i>Max Planck Institute for Human Development Independent Junior Research Group Neurocognition of Decision Making, Berlin, Germany.</i>
Ph.D., Cognitive Science	<i>University of California, San Diego (2008)</i>
M.S., Cognitive Science	<i>University of California, San Diego (2004)</i>
B.A. (1st class Honours), Psychology and French	<i>University of Auckland, New Zealand (2000)</i>

AWARDS, HONORS, AND FELLOWSHIPS

2007-2008:	NSF IGERT <i>Vision and Learning in Humans and Machines</i> 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

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

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.

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.

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.

(manuscripts in preparation):

Filimon, F; Philiastides, MG; Kloosterman, NA; Nelson, JD; Heekeren, HR (in preparation). Disentangling motor and perceptual decisions with event-related fMRI.

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;** Nelson, JD; Sejnowski, TJ; Sereno, MI; Cottrell, GW (2010, November). Expected value of information overlaps with reward circuits in humans. Talk given at the Society for Neuroscience conference, San Diego, USA.
- Filimon, F;** Kloosterman, NA, Nelson, JD, Philiastides, MG, Heekeren, HR (2010, April). Disentangling sensory integration and motor planning during perceptual decision-making: an event-related fMRI study. Cognitive Neuroscience Society conference, Montréal, Canada.
- Filimon, F;** Nelson, JD, Kloosterman, NA, Philiastides, MG, Heekeren, HR (2009, October). Sensory and motor correlates of perceptual decision making investigated with fMRI. Talk given at the Society for Neuroscience conference, Chicago, USA.
- Filimon, F** (2008, November). Non-spatial posterior parietal activations for finger, hand, and arm movements in humans. Society for Neuroscience conference, San Diego, USA.
- Filimon, F;** Nelson, JD, Sereno, MI (2007, November). Tactile spatial exploration in humans investigated with fMRI. Society for Neuroscience conference, San Diego, USA.
- Filimon, F;** Nelson, JD, Sereno, MI. (2007, May). Human fMRI of tactile spatial representations. Journal of Vision, 7(9):301, 301a, doi:10.1167/7.9.301.
- Filimon, F;** Nelson, JD; Sereno, MI (2006, May). Egocentric and allocentric reference frames for eye movements - an fMRI study. Journal of Vision, 6(6), 979a, <http://journalofvision.org/6/6/979/>.
- Nelson, JD; Cottrell, GW; **Filimon, F;** Sejnowski, T (2005, Dec). Optimal experimental design models of naive human information acquisition. NIPS 2005, Whistler, Canada.
- Sadaghiani, S., **Filimon, F.**, Hagler, D.J., Sereno M. I. (2005, Oct.) Spatiotemporal brain-activation pattern during visually-guided reaching using cortical surface-based event-related methods. Society for Neuroscience 2005, Washington D.C.
- Filimon, F.**, Nelson, J. D., and Sereno, M. I. (2005, July). Mirror neurons for observation, mental simulation, and execution of reaching movements in humans. ASIC 2005, Briançon, France.
- Filimon, F.**, Nelson, J. D., & Sereno, M. I. (2005). Parietal cortex involvement in visually guided, non-visually guided, observed, and imagined reaching, compared to saccades Journal of Vision, 5(8), 629a, <http://journalofvision.org/5/8/629/>, doi:10.1167/5.8.629.

Filimon, F., Nelson, J. D., and Sereno, M. I. (2005). Human parietal activations to visually guided and non-visually guided reaching versus saccades. Annual meeting of the Cognitive Neuroscience Society, New York, NY, April 2005.

Filimon, F., and Sereno, M. I. (2004). Direct reaching and eye movements to visual targets studied with fMRI. Talk given at the Society for Neuroscience, program number 603.14, San Diego, USA, October 2004.

Sereno, M. I.; Huang, R; Saygin, A.; **Filimon, F.**; Hagler, D. (2004). Retinotopy of human cortex using phase-encoded video. Society for Neuroscience, program number 709.7, San Diego, USA, October 2004.

Filimon, F., Hagler, D. J., and Sereno, M. I. (2004). Overlapping neural substrates for executed, observed, and imagined reaching movements: a functional Magnetic Resonance Imaging study. Annual meeting of the Society for Cognitive Neuroscience, San Francisco, USA, April 2004.

Gray, R. D., Rutledge, R., **Filimon, F.**, and Bryant, D. (2004). How tangled is language evolution? Trees, splits and networks. The Annual New Zealand Phylogenetics Meeting. Skotel, Mt Ruapehu, New Zealand, February 2004.

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/site_texts/information.html)

- * Reviewer (ad-hoc):
 - NeuroImage
 - Journal of Neurophysiology
 - Experimental Brain Research
 - Philosophical Psychology

RESEARCH EXPERIENCE

Research Fellow/ Research Scientist, Max Planck Institute for Human Development & Freie Universität Berlin, Germany.

(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)

- upper-division undergraduate courses:

* 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.