

CAMILLE MORVAN

Harvard University, Department of Psychology
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International education & experience in Experimental Psychology, Experimental Economics and Physiology

Expertise in collecting & analyzing large scale quantitative data sets to characterize human behavior

Team player with excellent communication skills and strong analytical abilities

Experience in team and project management

EDUCATION

PhD in Experimental Psychology , Université Paris VI. Highest distinction	Jan 2007
MSc in Cognitive Sciences , Université Paris VI. Distinction	June 2002
BSc Biochemistry , Université Paris VII & Universiteit Leiden	June 2001

PROFESSIONAL EXPERIENCE

Post-doctoral Fellow. Harvard University Foraging, Eye movements planning, remapping, global statistics, crowding With Prof. P. Cavanagh	Cambridge, MA Dec 2009-present
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Post-doctoral Fellow. New York University Decision making, risk & uncertainty, motor planning With Prof. L.T. Maloney	New York City, NY Feb 2008-Dec 2009
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PhD Student and Research Fellow. Collège de France Motion perception during smooth pursuit Advisors: Drs. J. Droulez & M. Wexler	Paris, France Sept 2002-Sept 2007
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Visiting Scientist. RIKEN Brain Science Institute Functional mapping of areas MT and MST during smooth pursuit With Prof. K. Tanaka & Dr. K. Cheng	Tokyo, Japan June 2007-Aug 2007
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Research Fellow. Universiteit Leiden Cloning of EF-Tu and characterization of the clone's properties	Leiden, The Netherlands Jan 2001- Aug 2001
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Marketing Manager. Fou-Tcheou Promoted artisanal & sustainable tea-ware at designers' exhibitions	Paris, France 2002-2005
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SKILLS

- Fluent in French and English
Conversational in Italian and Russian and basic proficiency in Spanish and German
- Proficient in MS Office, Latex, Illustrator, Photoshop under Windows and Mac OS
- Graphics programming, data mining, statistics and probability, mathematical modeling
- Expertise in C/C++, Matlab, Direct X, OpenGL, HTML, Statistica, Mathematica & SigmaPlot
- Physiological recordings: Eye and motion tracking, basic fMRI
- Team and Project management as well as Budget Management
- Organization of Scientific discussion groups and events
- Grant writing and fund raising for research

TEACHING

Neurobiology of Perception. Harvard Biology (with Prof. Nao Uchida)	2011
Political Psychology. Harvard Government (with Prof. Ryan Enos) Award	2011
Supervisor for undergraduate (8) and graduate (1) students	2007-2010

HONORS AND GRANTS

Harvard University Certificate of Distinction in Teaching.	2011
NIH grant « Consequences of visual uncertainty in visual perception and action »	2010
PI : Laurence Maloney, National Institutes of Health/National Eye Institute. \$903,595	
Philip Foundation Inc., Postdoctoral Fellowship. \$30,000.	2008
Japanese Society for the Promotion of Science, Visiting Scholar Grant. \$20,000.	2007
European Conference on Visual Perception, Travel Grant.	2006
Prize from the « Fédération des Aveugles de France ». \$20,000.	2005
French Ministry of Research, Doctoral Fellowship, MENRT. \$120,000.	2002-2005
Mobility Fellowship from the Paris Council. \$6,000.	2001
French Ministry of Education, Student Fellowship. \$54,000.	1998-2001

RELATED ACTIVITY

MS level Computer Science and System Engineering, Université Paris VI.	2002-2003
Summer school on Consciousness, Memory and Attention. Cargèse, Corsica, France	June 2005
Ad-Hoc reviewer for NSF and Journal of Vision and member of the Vision Science Society, Society for Neuroscience and Cognitive Science Society	
Co-organization of URG decision-making discussion group & the large impact Harvard Decision Making workshop	2010-2011

REFERENCES

Prof. Patrick Cavanagh, Harvard University	patrick@wjh.harvard.edu
Prof. Laurence Maloney, New York University	ltm1@nyu.edu
Prof. Kang Cheng, RIKEN Brain Science Institute	kcheng@postman.riken.jp
Dr. Mark Wexler, Université Paris V and CNRS	mark.wexler@gmail.com
Prof. Ryan Enos, Harvard University	renos@gov.harvard.edu
Mrs Catherine Philippe, former CEO Fou-Tcheou	catherine.phi@laposte.net

SCIENTIFIC COMMUNICATIONS

Journal Articles Published

<u>Morvan, C.</u> & Maloney, L. PLoS Computational Biology Human visual search does not maximize the post-saccadic probability of identifying targets.	In Press
Zhang, H., <u>Morvan, C.</u> , & Maloney, L. T. PLoS Computational Biology 6(12) Gambling in the visual periphery: A conjoint-measurement analysis of human ability to judge visual uncertainty.	2010
<u>Morvan, C.</u> & Wexler, M. Journal of Vision, 9(7), 1-13 The nonlinear structure of motion perception during smooth eye movements.	2009
<u>Morvan, C.</u> & Wexler, M. Journal of Vision, 5(2), 131-138 Reference frames in early motion detection.	2005

Journal Articles – Publication Pending (manuscripts available upon request)

Pedersini, R., <u>Morvan, C.</u> , Horowitz, T., Maloney, L. & Wolfe, J. Search must have a stop – Stopping rules in abstract search.	Pending
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Zhang, H., Morvan, C., Etezzad-Heydari, L-A. & Maloney, L. Pending
Eye-hand coordination for reward maximization.

Journal Articles – In Preparation (abstracts published, see below)

Morvan, C., Deubel, H. & Cavanagh, P. In prep.
Persisting image of saccade target is seen in spatiotopic coordinates.

Morvan, C. & Cavanagh, P. In prep.
Crowding is immune to the pre-saccadic attentional shift.

Communications in Conferences

Morvan, C., Deubel, H. & Cavanagh, P. (2011) Can Human Observers See The Prediction Generated By Presaccadic Remapping? Talk. VSS, Naples, FL.

Morvan, C., Zhang, H. & Maloney, L.T. (2010) Observers are inconsistent and inaccurate in judging their own visual detection ability at different retinal locations. *Journal of Vision*, 10(7): 1303. VSS, Naples, FL.

Pedersini, R., Morvan, C., Horowitz, T., Maloney, L. & Wolfe, J. (2010) An abstract equivalent of visual search: Gain maximization fails in the absence of visual judgments. *Journal of Vision*, 10(7): 1303. VSS, Naples, FL.

Zhang, H., Morvan, C., Etezzad-Heydari, L-A. & Maloney, L. (2010) Eye-hand coordination in finding and touching a target among distractors. *Journal of Vision*, 10(7): 532. VSS, Naples, FL.

Morvan, C. & Maloney, L.T. (2009) Suboptimal selection of the initial saccade in a visual search task. VSS, Naples, FL.

Morvan, C. & Maloney, L.T. (2009) Human visual search does not maximize the post-saccadic probability of identifying targets. BCCN, Frankfurt, Germany.

Morvan, C. & Maloney, L.T. (2009) Suboptimal selection of the initial saccade in a visual search task. Cosyne, Salt Lake City, UT.

Morvan, C., Droulez, J. & Wexler, M. (2007) New results in motion constancy during smooth pursuit eye movements. *Journal of Vision*, 7(9), 725. VSS, Naples, FL.

Morvan, C. & Wexler, M (2006). Non homogeneous compensation for smooth pursuit. *Perception* 35 ECVF

Morvan, C. & Wexler, M. (2005). The timing of space constancy during smooth pursuit eye movements. *Journal of Vision*, 5(2), 131.

Bulot, N.J., Droulez, J., Morvan, C. & Pylyshyn, Z.W. (2004). Keeping track of objects while exploring a spatial layout with partial cues: Location-based and direction-based strategies. *Journal of Vision*, 4(8), 364. VSS 2004.

Morvan, C. & Wexler, M. (2004). Motion detection by active observers. *Journal of Vision*, 4(8), 566. VSS, Naples, FL.

Morvan, C. & Wexler, M. (2004). Early compensation for smooth-pursuit eye movement in motion detection. *Perception* 34 ECVF

Morvan, C. & Wexler, M. (2003). The detection of motion in any reference frame. *Perception* 33 ECVF

Invited Talks

Berenson-Allen Center for Noninvasive Brain Stimulation, Harvard Medical School Feb 2011
Eye-Hand coordination for reward maximization Cambridge, MA

Visual Attention Lab, Harvard Medical School Feb 2011
Can human observers see the prediction generated by presaccadic remapping? Cambridge, MA

Bernstein Student Symposium Oct 2009
Suboptimal selection of initial saccade in a visual search task Frankfurt, Germany

Visual Attention Lab, Harvard Medical School March 2009
Human visual search does not maximize the post-saccadic probability of identifying targets Cambridge, MA

LCBM, RIKEN BSI
Visual perception of motion during smooth pursuit

June 2007
Tokyo, Japan

Nishida's Laboratory, NTT
Non-homogeneous compensation for smooth pursuit

June 2007
Atsugi, Japan