

Sébastien M. Crouzet

PERSONAL INFORMATION Age: 29
Citizenship: French

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CURRENT POSITION Post-doctoral Associate
Department of Cognitive and Linguistic Sciences, Brown University, Providence, RI, USA

EDUCATION **Ph.D. in Neurosciences** **2010**
Université de Toulouse, France
Advisor: Dr Simon Thorpe

European Summer School in Visual Neurosciences **September 2008**
'From Spike to Awareness', Organisation: K. Gegenfurtner, F. Bremmer, J. Braun.
Rauischholzhausen, Germany

Master in Cognitive Science, Mention Bien **2006**
ENS / EHESS / Ecole Polytechnique / Paris 5 / Paris 6, France
Advisor: Dr Simon Thorpe

Licence in Cognitive Science, Mention Assez Bien **2004**
Université Bordeaux 2, France

PUBLICATIONS **Refereed Journal Articles**

Crouzet SM and Thorpe SJ (2011). Low level cues and ultra-fast face detection. *Front. Psychology* 2:342. doi: 10.3389/fpsyg.2011.00342
Crouzet SM and Serre T (2011). What are the visual features underlying rapid object recognition? *Front. Psychology* 2:326. doi: 10.3389/fpsyg.2011.00326
Crouzet, S. M., Cauchoux, M. (2011). When does the visual system need to look back? *The Journal of Neuroscience*, 15 June 2011, 31(24): 8706-8707
Crouzet, S. M., Kirchner, H., & Thorpe, S. J. (2010). Fast saccades toward faces: Face detection in just 100 ms. *Journal of Vision*, 10(4):16, 1-17, <http://journalofvision.org/10/4/16/>, doi:10.1167/10.4.16.

Book Chapter

M., Fabre-Thorpe, S. Crouzet, G. A. Rousselet, H. Kirchner and S. J. Thorpe (2008). Catégorisation visuelle rapide: les visages sont-ils des objets spécifiques? In *Traitement et reconnaissance des visages: du percept à la personne*. E. J. Barbeau, S. Joubert and O. Felician. Marseille, Solal: 239-260.

Cauchoix M., Crouzet S., Fize D., Serre T. (2011) Visual features and dynamics of rapid recognition in monkey visual cortex. SFN 2011

Crouzet S M, Stemmler T, Capps M, Fahle M & Serre T (2011) Single-trial decoding of binocular rivalry switches from oculometric and pupil data. Vision Science Society, Naples, Florida.

Brilhault A, Mathey M, Jolmes N, Crouzet S M & Thorpe SJ (2011) Saccades to color: an ultra-fast controllable mechanism to low-level features. Vision Science Society, Naples, Florida.

Thorpe S J, Brilhault A, Mathey M, Crouzet S M, 2010, "Colour based target selection for ultrarapid saccades: The fastest controllable selection mechanism?" Perception 39 ECVF Abstract Supplement, page 158

Mathey M A, Crouzet S M, Thorpe S J, 2010, "The accuracy of ultra-rapid saccades to faces" Perception 39 ECVF Abstract Supplement, page 171

Crouzet, S. M. & Thorpe, S. J. (2010) Power spectrum cues underlying ultra-fast saccades towards faces [Abstract]. Journal of Vision, 10(7): 634

Mathey, M. A., Crouzet, S. M. & Thorpe, S. J. (2010) Ultra-rapid saccades to faces : the effect of target size [Abstract]. Journal of Vision, 10(7): 635

Crouzet S, Mathey M, Thorpe S J (2009). Ultra-fast saccades to faces: A temporal precedence effect? Perception 38 ECVF Abstract Supplement, page 157.

Crouzet, S. M., Joubert, O. R., Thorpe, S. J., & Fabre-Thorpe, M. (2009). The bear before the forest, but the city before the cars: Revealing early object/background processing [Abstract]. Journal of Vision, 9(8):954

Fabre-Thorpe, M., Crouzet, S. M., Wu, C.-T., & Thorpe, S. J. (2009). At 130 ms you "know" where the animal is but you don't yet "know" it's a dog [Abstract]. Journal of Vision, 9(8):786

Thorpe, S. J., Crouzet, S. M., Macé, M. J., Bacon-Macé, N., & Fabre-Thorpe, M. (2009). Masking in a high-level gender discrimination task is essentially entirely pre-cortical [Abstract]. Journal of Vision, 9(8):546

S Crouzet, H Kirchner, S J Thorpe (2008). Saccading towards faces in 100 ms. What's the secret? Perception 37 ECVF Abstract Supplement, page 119.

S J Thorpe, H Kirchner, S Crouzet, P Bayerl, H Neumann (2008). Processing times for optic flow patterns measured by the saccadic choice task. Perception 37 ECVF Abstract Supplement, page 40.

Crouzet, S., Thorpe, S. J., & Kirchner, H. (2007). Category-dependent variations in visual processing time. Journal of Vision, 7(9):922,922a, <http://journalofvision.org/7/9/922/>, doi:10.1167/7.9.922.

Thorpe, S., Crouzet, S., & Kirchner, H. (2007). Saliency maps and ultra-rapid choice saccade tasks. Journal of Vision, 7(9):30, 30a, <http://journalofvision.org/7/9/30/>, doi:10.1167/7.9.30.

Simon J. Thorpe, Sébastien Crouzet, Holle Kirchner and Michèle Fabre-Thorpe (2006). Ultra-rapid face detection in natural images : implications for computation in the visual system. First French Conference on Computational Neurosciences, pp. 124-127. Abbaye des Prémontrés, Pont Mousson, France.

Simon J. Thorpe, Sébastien Crouzet and Holle Kirchner (2006). Comparing processing speed for complex natural scenes and simple visual forms. Perception, vol. 35, p 128.

INVITED TALKS	Revealing early visual processing of natural scenes using a saccade choice task (May 2009). Aude Oliva's lab meeting. MIT, Boston, MA	
PROFESSIONAL SERVICES	Ad Hoc Reviewer Animal Cognition Frontiers in Perception Science Review Editor Frontiers in Perception Science	Brain Topography Seeing and Perceiving
TEACHING EXPERIENCE	Guest lecture <i>Computational Vision course, CLPS1520, Brown University, Providence, RI, USA</i> Object recognition in natural scenes Teaching Assistant <i>Department of Psychology, Université Toulouse Le Mirail, Toulouse, France</i> Introduction to Neurosciences Instructor <i>School of Psychomotricity, Faculté de Médecine de Rangueil, Toulouse, France</i> The visual system Instructor <i>School of Psychomotricity, Faculté de Médecine de Rangueil, Toulouse, France</i> Epistemology of neuropsychology Instructor <i>School of Psychomotricity, Faculté de Médecine de Rangueil, Toulouse, France</i> Sleep, emotions	2011 2006 to 2009 2006 to 2009 2006 to 2007 2006
OFFICIAL COMMITMENTS	Co-organizer of the J3CN <i>Journal Club for Cognitive & Computational Neuroscience, Brown University</i> https://sites.google.com/a/brown.edu/j3cn/ Providence, USA Header of the Organizing Committee for the CJCSC'09 <i>French Cognitive Science Young Researcher Conference</i> http://fresco.risc.cnrs.fr/cjcsc2009/ Toulouse, France Header of the Young Researcher Workshop for trend forecasting in Cognitive Science <i>Part of the PIRSTEC project funded by the French National Research Agency (ANR)</i> http://pirstec.risc.cnrs.fr Students and Post-Docs representative <i>Brain and Cognition Research Center lab council</i> Toulouse, France Founding member of inCOGnu <i>Association of cognitive science students of Toulouse</i> http://incognu.fr/ Toulouse, France	2010 to 2011 2008 to 2009 2009 2006 to 2009 2006 to 2009

FELLOWSHIPS,
GRANTS &
SCHOLARSHIPS

4th year of Ph.D. fellowship
Fondation pour la Recherche Médicale (FRM)

Nov 2009 to May 2010

Postgraduate scholarship
Délégation Générale pour l'Armement (DGA, French Ministry of Defense)

Oct 2006 to Sep 2009

Master scholarship
René Descartes University (Paris 5)

2005 to 2006

TECHNICAL
SKILLS

Operating Systems: Mac OS X, GNU/Linux (Ubuntu, Fedora, Mandriva), MS Windows
Experiments: MATLAB, Psychtoolbox-3 for MATLAB
Data Analysis: R, MATLAB
Eye movement recording: SMI View Eyetracker, Chronos Eyetracker, EOG
Other: L^AT_EX, Adobe Illustrator, Keynote, HTML, CSS