

CURRICULUM VITAE

Karla K. Evans

Personal data

Visual Attention Laboratory
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Citizenship: Slovenia
Immigration Status: US permanent resident

Degrees and Education

- 2004-2007 **Princeton University**, Department of Psychology, New Jersey, USA
Ph.D in Cognitive Psychology
Ph.D Thesis: Crossmodal Interactions Between Corresponding Auditory And Visual Features
Advisor: Prof. Anne Treisman; Secondary advisor: Prof. James Haxby
- 2002-2004 **Princeton University**, Department of Psychology, New Jersey, USA
Masters in Cognitive psychology
Master Thesis: Perception of Natural Scenes
Advisor: Prof. Anne Treisman; Secondary advisor: Prof. James Haxby
- 1992-1998 **University of Trieste**, Department of Psychology, Trieste, Italy
Combined BA & Masters in Experimental Psychology
Master Thesis: Dynamic Non-linear Model of Acoustic Segregation
Advisor: Prof. Riccardo Luccio
- 1990-1992 **University of Sarajevo**, Department of Psychology, Sarajevo, Bosnia and Herzegovina
BA Experimental Psychology (Transfer to Trieste University)

Professional Experience

- 2008-present Postdoctoral Fellow, Visual Attention Laboratory, Harvard Medical School & Brigham and Women's Hospital, Boston, Massachusetts (Advisor: Prof. Jeremy Wolfe)
- 2007-2008 Postdoctoral Fellow, Dept. of Brain & Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts (Advisor: Prof. Nancy Kanwisher)
- 2000-2002 Research Assistant, Department of Psychology, Princeton University, Princeton, New Jersey (Work with Prof. Frank Tong)
- 1997-1998 Research Assistant, Department of Psychology, University of Trieste, Trieste, Italy (Work with Prof. Walter Gerbino)
- 1996-1997 Research Assistant, Department of Psychology, University of Trieste, Trieste, Italy (Work with Prof. Carlo Semenza)

Honors and Fellowships

2009	Research Excellence Award, Brigham and Women's Hospital
2006	Princeton University Dean's Fund for Scholarly Travel Grant
2005	Fellowship to the Summer Institute in Cognitive Neuroscience at Dartmouth College
2002-2003	Science/Engineering Fellowship, Princeton University
1994-1998	Fellowship of the Open Society Fund

Research Grants

2009-2012	Individual Ruth Kirschstein-NRSA Postdoctoral grant - 3 years
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Research Interests

Visual Cognition, Visual and Acoustic Perception

Areas of expertise:

- Natural scene processing
- Cross-modal perception
- Visual Attention
- Translational research

Techniques used:

- Behavioral methods
- Functional magnetic resonance imaging (fMRI)
- Eye tracking
- Electroencephalogram (EEG)

Journal Publications

- Evans K.K. & Treisman A., (2005) Perception of objects in natural scenes; is it really attention-free? *Journal of Experimental Psychology; Human Perception and Performance*, 31 (6), 1476-1492
- Awater H., Kerlin J. R., Evans K.K. & Tong F. (2005) Cortical representation of space around the blind spot. *Journal of Neurophysiology*, 94, 3314-3324
- Todorov, A., Gobbini, M.I., Evans, K. K., Haxby, J.V. (2007) Spontaneous Retrieval of Affective Person Knowledge in Face Perception. *Neuropsychologia*, 45 (1), 163-173
- Evans, K. K. & Treisman, A. (2010). Natural cross-modal mappings between visual and auditory features. *Journal of Vision*, 10(1):6, 1-12
- Evans, K.K., Cohen, M., Tambouret, R., Horowitz, T., Kreindel, E. & Wolfe, J.M. (2010) Does Visual Expertise Improve Visual Recognition Memory? *Attention, Perception & Psychophysics*, 73 (1), 30-35.
- Evans, K.K., Horowitz, T. & Wolfe, J.M. (2011) When Categories Collide: Accumulation of Information About Multiple Categories in Rapid Scene Perception. *Psychological Science*, 22 (6), 739 - 746
- Wolfe J.M., L-H Vo, M., Evans K. K. & Greene, M.R. (2011) Visual search in scenes involves selective and non selective pathways. *Trends in Cognitive Sciences* 15(2), 77-84.
- Cohen, M., Evans, K.K., Horowitz, T. & Wolfe, J.M. (2011) Auditory Recognition Memory is Inferior to Visual Recognition Memory in Musicians. *Psychonomic Bulletin & Review* 18(3), 586-591
- Evans K.K., Evered A., Tambouret R.H., Wilbur D.C. & Wolfe J.M. (2011) Prevalence of Abnormalities Influences Cytologists' Error Rates in Screening for Cervical Cancer. (in press, December) *Arch Pathol Lab Med*.

Book Chapters

- Howe, P., Evans, K.K., Pedersini, R., Cohen, M., Horowitz, T., & Wolfe, J. (2009) Attention: Selective Attention and Consciousness. In Banks, W.P. (Eds.) Encyclopedia of Consciousness, Elsevier Inc.
- Evans K.K. & Chong S., (2011) Distributed Attention and Its Implication For Visual Perception. In Wolfe, J.M., Robertson, L. (Eds.) Attention and Beyond: Searching through the papers of Anne Treisman. NY: Oxford University Press. (In press)
- Chong S. & Evans K.K., (2010) Focused v. Distributed Attention (count v. estimate), In L. Nadel (Ed.), Wiley Interdisciplinary Reviews: Cognitive Science Published online 23 Dec. 2010
- Evans, K.K., Horowitz, T., Howe, P., Pedersini, R., Reijnen, E., Pinto, Y., & Wolfe, J. (2011) Visual Attention, In L. Nadel (Ed.), Wiley Interdisciplinary Reviews: Cognitive Science, 2(5), 503-514

Manuscripts

- Evans, K.K. & Treisman, A. (submitted) Role of Attention in Visual-Auditory Crossmodal Interactions.
- Evans, K. K., Treisman, A. and Haxby, J. (submitted) Neural Correlates of Crossmodal Interactions between Corresponding Auditory and Visual Features.
- Evans, K.K. & Treisman, A. (in preparation) Dynamics of Crossmodal Interactions Between Corresponding Auditory and Visual Features.
- Evans, K.K., & Treisman, A. (in preparation). The Impact of Extended Meditation Practice on Various Attention Skills.
- Evans, K.K., Birdwell, R. & Wolfe J.M. (submitted). Disease prevalence as a source of miss errors in screening Mammography.
- Evans, K.K. Birdwell, Georgian-Smith, Tambouret & Wolfe Wolfe J.M. (in preparation). Discrimination and Localization of Abnormalities in Mammograms from a Global Signal
- Evans, K.K. & Wolfe J.M. (in preparation). How global is non-selective processing of scenes?

Conference Presentations

- Evans, K. K., Todorov, A., Gobbini, M. Ida, & Haxby, J. V. (2003, September). Neural mechanisms of person perception: Spontaneous retrieval of prior evaluative inferences.; Poster session presented at the Symposium of Multidisciplinary approach to the Science of Face Perception, Princeton, NJ.
- Evans, K. K., Todorov, A., Gobbini, M. Ida, & Haxby, J. V. (2004, April). Rapid Specific Categorization of Faces Triggered by Prior Evaluative Inferences. Poster session presented at the Cognitive Neuroscience Society conference, San Francisco, CA.
- Evans, K. K. & Treisman, A. (2004, May) Perception of natural scenes; is it really attention-free? Talk presented at the Vision Science Society conference, Sarasota, FL.
- Evans, K. K. & Treisman, A. (2004, November) Perception of natural scenes; is it really attention-free? Talk presented at the Object Perception, Attention and Memory conference, Minneapolis, MI.
- Evans, K. K. & Treisman, A. (2005, May) Crossmodal Binding of Audio-Visual Correspondent Features. Poster presented at the Vision Science Society conference, Sarasota, FL.
- Evans, K. K. (2005, October) Neural Correlates of Crossmodal Binding of Correspondent Audio-Visual Features, Talk presented at Penn-Princeton Graduate Student Symposium in Cognitive Neuroscience, Princeton New Jersey.
- Evans, K. K., Treisman, A., & Haxby, J. V. (2006, April) Neural Correlates of Crossmodal Interactions Between Corresponding Auditory and Visual Features. Poster session presentation at the Cognitive Neuroscience Society conference, San Francisco, CA.
- Evans, K. K. & Treisman, A. (2006, May) Role of Attention in Visual-Auditory Crossmodal Interactions. Talk presented at the Vision Science Society conference, Sarasota, FL.
- Evans, K. K. (2006, November) Crossmodal Binding of Correspondent Audio-Visual Features; An Electrophysiological Study, Talk presented at Penn-Princeton Graduate Student Symposium in Cognitive Neuroscience, Philadelphia, Pennsylvania.

- Evans, K. K., & Treisman, A. (2007, May) Dynamics of Crossmodal Interactions Between Corresponding Auditory and Visual Features. Poster session presentation at the Vision Science Society conference, Sarasota, FL.
- Evans, K. K. & Wolfe, J. (2009, May) Rapid, global image processing: Powerful, but capacity-limited. Talk presented at 9th Annual Meeting of the Vision Sciences Society, Naples FL.
- Evans, K. K. & Wolfe, J. (2009, August) Limits on the non-selective processing of scenes. Talk presented at 32nd European Conference on Visual Perception, Regensburg, Germany.
- Evans, K. K., Georgian-Smith, D., Birdwell, R., & Wolfe, J (2009, October) Seeing trouble in a flash: Discrimination of normal from abnormal mammograms with brief exposure, Talk presented at 13th Biannual Medical Image Perception Conference, Santa Barbara CA.
- Evans, K. K. & Wolfe, J. (2009, November) When Categories Collide; Interference effects in gist processing. Poster presented at 50th Annual Meeting of the Psychonomic Society, Boston MA.
- Evans, K. K. & Wolfe, J. (2010, May) When the animal destroys the beach, the beach destroys the animal: Mutually assured destruction in gist processing Poster presented at 10th Annual Meeting of the Vision Sciences Society, Naples FL.
- Evans, K. K. & Wolfe, J. (2010, August) How global is non-selective processing of scenes? Poster presented at 33rd European Conference on Visual Perception, Lausanne, Switzerland.
- Evans, K. K., Wolfe, J., Tambouret, R. H. & Wilbur D. C. (2010, November) In the blink of an eye: Discrimination and Localization of Abnormalities in Cervical Cytology Screening from a Global Signal. Poster session presentation at the 58th Annual Scientific Meeting of the American Society of Cytopathology, Cancer Cytopathology, Vol 118, issue 6
- Wolfe, J. M. and Evans K. K. (2010, November). Does This Beach Make Me Look Like an Animal? Flexible Weighting of Evidence in Rapid Identification of Scene Properties. Psychonomic Society Annual Meeting. St. Louis.
- Evans, K. K., Georgian-Smith, D., Birdwell, R. & Wolfe, J (2010, December) Discrimination and Localization of Abnormalities in Mammograms from a Global Signal. Talk presented at 96th Scientific meeting of the Radiological Society of North America.
- Wolfe, J., Birdwell, R. & Evans, K. K., (2010, December) Have we met Before? How Good is Radiologists' Recognition Memory for Mammograms? Talk presented at 96th Scientific meeting of the Radiological Society of North America.
- Evans, K. K. & Wolfe, J. (2011, May) Responding to the gist of unseen scenes. Poster presented at 11th Annual Meeting of the Vision Sciences Society, Naples FL.
- Evans, K. K. & Wolfe, J. (2011, August) Nonselective Properties Are Immune To The Standing Wave Of Invisibility. Talk presented at 34th European Conference on Visual Perception, Toulouse, France.

Professional Activities

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| 2010 | Grant review panel on cognitive neuroscience for The Netherlands Organization for Scientific Research |
| 2011 | Conference submission reviewer for European Conference on Visual Perception |
| 2002-present | Served as ad hoc reviewer for: Proceedings of National Academy of Sciences, Review editor for Frontiers in Perception Science, Cognition, Journal of Experimental Psychology: Human Perception and Performance, Attention, Perception and Psychophysics, Experimental Brain Imaging and Behavior Psychological Review, Behavior Research Methods, Acta Psychologica, Experimental Brain Research, Transactions on Image Processing, British Journal of Radiology |
| 2009-2010 | Coordinator for Visual Attention Lab Seminar Series |
| 2007-2011 | Organizer of the Exploration project at Harvard Medical school for Visual Attention Lab |
| 2002-2007 | Member of the Colloquium Committee For psychology Department at Princeton University |

2004-2006	Member of the Organizing Committee for the Princeton Research Symposium, Princeton University
2003-2007	Leader of the Department Senior Thesis Writing Group
2003-present	Student and postdoctoral member of American Psychological Society (APS)
2004-present	Student and postdoctoral member of Vision Science Society (VSS)
2002-2008	Student and postdoctoral member of New York Academy of Sciences
2008-present	Postdoctoral member of European Conference of Visual Science (ECVP)
2003-present	Student and Postdoctoral member of Advancing Science, Serving Society (AAAS)
2003-present	Student and postdoctoral member of Cognitive Neuroscience Society (CNS)

Invited Talks

2006, Feb.	Scene Understanding Symposium 2006, MIT, Boston, Massachusetts
2006, Dec.	Perceptual Science Series, Rutgers University Center for Cognitive Sciences, Rutgers University, New Brunswick, New Jersey
2007, Mar.	McGovern Institute, MIT, Boston, Massachusetts
2007, Apr.	Lecture Series, Rutgers University Psychology Department, Rutgers University, Newark, New Jersey
2007, Oct.	Cognitive Lunch Series, Brain and Cognitive Sciences, MIT, Boston, Massachusetts
2008, Apr	Visual Attention Lab Seminar Series, Brigham and Women's Hospital, Harvard University, Boston, Massachusetts
2008, May	Anne Treisman Festschrift, University Psychology Department, Princeton University, Princeton, New Jersey
2009, Aug.	Department of Psychology and Educational Sciences, University of Liège, Belgium
2011, Apr.	Department of Pathology, Massachusetts General Hospital, Boston, Massachusetts
2011, Apr.	Computational Visual Cognition Laboratory, MIT, Cambridge, Massachusetts
2011, Oct.	Vision and Visual Optics (VIVO) seminar series at Schepens Eye Research Institute, Boston, Massachusetts

Teaching Experience

Spring 2011	PSY355 Perception, University of Massachusetts, Boston - Lecturer
Spring 2010	PSY247 Perception, Simmons College - Lecturer
Feb. 2009	CN730 Models of Visual Attention, Boston University - Lecturer in Dr. Ennio Mingolla's course
Spring 2006	PSY 255 Cognitive Psychology, Princeton University - Assistant Instructor with Dr. Daniel Oshershen
Spring 2004	PSY 101 Introduction to Psychology, Princeton University - Head Assistant Instructor with Dr. Joel Cooper
Fall 2003	PSY 101 Introduction to Psychology, Princeton University - Head Assistant Instructor with Dr. Sam Glucksberg