

## CV Prof. Karl Gegenfurtner, Ph.D.

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### Academic career

- Since 2001      Professor of Psychology, Justus-Liebig-University Giessen
- 2000 – 2001      Professor of Biological Psychology, Otto-von-Guericke University Magdeburg
- 1993 – 2000      Research scientist, MPI for biological Cybernetics, Tübingen (AG Bülthoff)
- 1990 – 1993      Postdoctoral fellow, Howard Hughes Medical Institute and Center for Neural Science der New York University (Prof. J. Anthony Movshon)

### Education

- 1998      Habilitation in Medical Psychology and Behavioral Neurobiology, Medical Fakultät, Tübingen University
- 1986 – 1990      Ph.D. in Experimental Psychology, New York University, New York (Advisors: Prof. George Sperling and Prof. John Krauskopf).
- 1981 – 1986      Studies in Psychology, Regensburg University. Diploma in Psychology, 1986.

### Funding

- 2014 – 2017      Collaborative Research Center SFB/TRR 131 Cardinal mechanisms of perception (DFG), Speaker
- 2013 – 2017      International Research Training Group IRTG 1901 The brain in action (DFG)
- 2013 – 2016      BMBF-NSF Computational Neuroscience Program: Circuit models of form processing in primate V4
- 2012 – 2016      Perceptual representation of shape, illumination and material (EU) Partner Marie-Curie Initial Training Network
- 2009 – 2016      Reinhart Koselleck-Projekt Perception of material properties (DFG)
- 2010 – 2014      Mesopisches Sehen (DFG)
- 2008 – 2012      Co-ordination for optimal decisions in dynamic environments (EU) Partner Marie-Curie Initial Training Network
- 2008 – 2011      Augenbewegungen beim Lesen in unterschiedlichen Medien (LOEWE) Partner in main project Kulturtechniken und ihre Medialisierung
- 2006 – 2009      Gaze-based communication (EU) Partner STREP, FET-Open
- 2004 – 2011      Research group Perception and Action (DFG) Speaker
- 2004 – 2008      Summer school Visual Neuroscience, Founder and Organizer (Volkswagen Foundation)
- 2003 – 2010      Graduate program NeuroAct: Brain and behavior (DFG), Co-Speaker
- 2003 – 2007      Perception for recognition and action (EU) Partner Marie-Curie Initial Training Network
- 2002 – 2006      Perception of natural scenes (DFG)
- 2002 – 2005      Projekt Neue Verfahren der Informationsverarbeitung auf der Basis neurokognitiver Modellierung – ModKog (BMBF) Partner in research group
- 2001 – 2009      Cortical mechanisms of color vision (DFG)

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## Awards, honours and fellowships

2016	Wilhelm-Wundt-medal of the German Psychological Association
2015-	Member, National Academy of Science (Leopoldina)
2014	Rank-Prize-Funds Lecture, European Conference on Visual Perception
1998	Heisenberg-Fellowship, DFG
1995	Attempto Prize for excellence in neurobiology of Universität Tübingen
1995	Habilitation-Fellowship, DFG

## Services

since 2016	Alexander-von-Humboldt-Foundation, fellowship selection committee
since 2015	Editorial board, Psychological Review
2012 – 2013	President, Vision Sciences Society
2010 – 2014	Board of Directors, Vision Sciences Society
2010 – 2014	Editorial board, Psychological Research
since 2009	Editorial board, Perception
since 2009	Editorial board, Journal of Vision
2008 – 2013	Editorial board, Visual Neuroscience
since 2007	Editorial board, Vision Research
2004, 2014	Organizer, Tagung experimentell arbeitender Psychologen, Giessen
2004 – 2016	Organizer, Summer school “Visual neuroscience: From spikes to awareness”
2002 – 2009	Editorial board, Journal of Physiology
1998 – 2003	Founder and Organizer, Tübinger Wahrnehmungskonferenz

## Mentoring

Professors, Lecturers	Prof. Frederic Devinck (Universite Rennes), Prof. Volker Franz (Universität Tübingen), Dr. Constanze Hesse (University of Aberdeen), Dr. Gesche Hübner (UC London), Prof. Dirk Kerzel (Universite de Geneve), Prof. Neil Mennie (University of Nottingham), Dr. Maria Olkkonen (Durham), Prof. Celine Paeye (Universite Paris), Prof. Jochem Rieger (Universität Oldenburg), Prof. Thomas Schmidt (Universität Kaiserslautern), Prof. Alexander Schütz (Universität Marburg), Dr. Sascha Serwe (Fernuniversität Hagen), Prof. Anna Seydell Greenwald (Georgetown University), Prof. Miriam Spering (University of British Columbia, Vancouver), Dr. Martin Stritzke (Fielmann Akademie Schloß Plön), Prof. Marco Tommasi (Universita Chieti), Prof. Romain Vergne (Universite Grenoble)
Postdoctoral fellows	Dr. Matthias Bischoff (Gießen), Dr. Jan Drewes (Rovereto), Dr. Martin Giesel (St. Andrews), Dr. Kai Hamburger (Gießen), Dr. Dirk Neumann (Caltech), Dr. Peter Vangorp (MPI Informatik, Saarbrücken), Dr. Brian White (Queen’s University, Kingston)
Industry, clinic	Florian Bayer (Carl Zeiß AG), Dr. Kurt Debono (SR Research), Dr. Denise de Grave (Unilever), Dr. Lukas Kaim (Hexagon Metrology), Dr. Urs Kleinholdermann (Universitätsklinikum Giessen Marburg), Dr. Lars Pracejus (Psychotherapist), Dr. Oliver Rinner (Biognosys), Dr. Christiane Wiebel (Honda Research), Dr. Dagmar Wismeijer (TNO)

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### Selected publications

1. Valsecchi, M., & Gegenfurtner, K. R. (2016). Dynamic Re-calibration of Perceived Size in Fovea and Periphery through Predictable Size Changes. **Current Biology**, 26, 59–63.
2. Gegenfurtner, K.R., Bloj, M. & Toscani, M. (2015) The many colours of ‘the dress’. **Current Biology**, 25, R1–R3.
3. Toscani, M., Valsecchi, M. & Gegenfurtner, K.R. (2013) Optimal sampling of visual information for lightness judgments. **Proceedings of the National Academy of Sciences USA**, 110(27), 11163-11168.
4. Toscani, M., Valsecchi, M. & Gegenfurtner, K.R. (2013) Selection of visual information for lightness judgments by eye movements. **Philosophical Transactions of the Royal Society B: Biological Sciences**, 368, 20130056.
5. Schütz, A.C., Trommershäuser, J.T. & Gegenfurtner, K.R. (2012) Dynamic integration of information about salience and value for saccadic eye movements. **Proceedings of the National Academy of Sciences USA**, 109(19), 7547-7552.
6. Trommershäuser, J., Glimcher, P.W. & Gegenfurtner, K.R. (2009) Visual Processing, Learning and Feedback in the Primate Eye Movement System. **Trends in Neurosciences**, 32, 583-590.
7. Schütz, A. C., Braun, D. I., Kerzel, D., & Gegenfurtner, K. R. (2008). Improved visual sensitivity during smooth pursuit eye movements. **Nature Neuroscience**, 11, 1211–1216.
8. White, B. J., Stritzke, M., & Gegenfurtner, K. R. (2008). Saccadic facilitation in natural backgrounds. **Current Biology**, 18, 124–128.
9. Hansen, T., Olkkonen, M., Walter, S., & Gegenfurtner, K. R. (2006). Memory modulates color appearance. **Nature Neuroscience**, 9, 1367–1368.
10. Kerzel, D., & Gegenfurtner, K. R. (2003). Neuronal processing delays are compensated in the sensorimotor branch of the visual system. **Current Biology**, 13, 1975–1978.
11. Gegenfurtner, K. R. (2003). Cortical mechanisms of colour vision. **Nature Reviews Neuroscience**, 4, 563–572.
12. Gegenfurtner, K. R., & Kiper, D. C. (2003). Color vision. **Annual Review of Neuroscience**, 26, 181–206.
13. Gegenfurtner, K. R., & Rieger, J. (2000). Sensory and cognitive contributions of color to the perception of natural scenes. **Current Biology**, 10, 805–808.
14. Gegenfurtner, K. R., Mayser, H., & Sharpe, L. T. (1999). Seeing movement in the dark. **Nature**, 398, 475–476.
15. Gegenfurtner, K. R. and Hawken, M. J. (1996) Interactions between color and motion in the visual pathways. **Trends in Neurosciences**, 19, 394-401.
16. Hawken, M. J., Gegenfurtner, K. R. and Tang, C. (1994) Contrast dependence of colour and luminance motion mechanisms in human vision. **Nature**, 367, 268-270.

For a complete list, see <http://www.allpsych.uni-giessen.de/karl/articles.html>