

SFB-TRR 135 - Retreat
Thu 26 – Sun 29 May, 2016
Rauschholzhausen Castle
Schlosspark I, 35085 Ebsdorfergrund

Contact for administration & travel

Anouk Vingerling

phone: +49 641 99 26114

fax: +49 641 99 26119

Anouk.Vingerling@psychol.uni-giessen.de

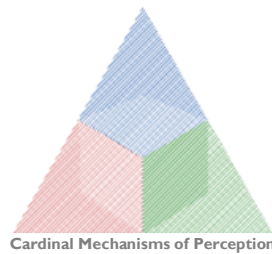
Contact for research-questions

Karl Gegenfurtner

Karl.R.Gegenfurtner@psychol.uni-giessen.de

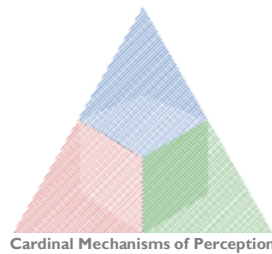
Thursday, May 26th

Time	
13:45	Karl Gegenfurtner: <i>Welcome and introduction</i>
14:00	Konrad Kording (Chicago): <i>The representation of uncertainty and reward in the sensorimotor system.</i>
15:00	A1: Doris Braun, Frank Bremmer, Karl Gegenfurtner: <i>Prediction of position and motion during saccadic and smooth pursuit eye movements.</i>
15:30	A2: Frank Bremmer: <i>Predictive perception of self-motion.</i>
16:00	<i>Coffee Break</i>
16:30	<i>Poster session group A</i>
18:30	<i>Dinner</i>
20:00	Simon Thorpe (Toulouse): <i>Has object vision been solved?</i>



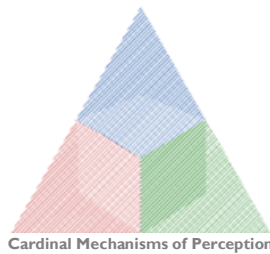
Friday, May 27th Prediction

Time	
9:00	E4: Matteo Valsecchi: <i>Post-saccadic prediction error leading to center-peripheral perceptual calibration.</i>
9:30	A4: Katja Fiehler: <i>Predictive visual and somatosensory signals during hand and eye movements.</i>
10:00	A5: Knut Drewing: <i>Predictive and sensory signals in the control of exploratory movements in active touch.</i>
10:30	<i>Coffee Break</i>
11:00	A7: Claudia Kubicek, Bianca Jovanovic, Gudrun Schwarzer: <i>The relation between visual prediction abilities and motor skills in infancy.</i>
11:30	A3: Bianca van Kemenade, Tilo Kircher, Ezgi Arikan, Benjamin Straube: <i>Predictive perception: multisensory consequences of one's own actions.</i>
12:30	<i>Lunch</i>
14:00	Yaffa Yeshurun (Haifa): <i>Perceptual tradeoffs shape the effects of transient attention.</i>
15:00	B1: Wolfgang Einhäuser-Treyer, Bianca Wittmann: <i>The interaction of visual and motivational salience in natural-scene perception.</i>
15:30	B2: Alexander Schütz: <i>Control of eye movements by informational value.</i>
16:00	<i>Coffee Break</i>
16:30	<i>Poster session group B</i>
18:30	<i>Dinner</i>
Evening	<i>Discussion and drinks, work groups</i>



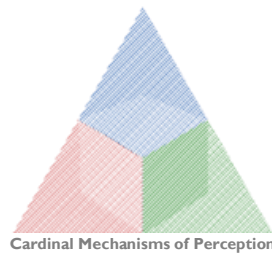
Saturday, May 28th Valuation

Time	
9:00	B3: Anna Schubö: <i>Coordination of visual salience and top-down signals for determining priority in visual selection.</i>
9:30	B4: Wolfgang Einhäuser-Treyer, Stephan König, Harald Lachnit: <i>Effects of informational value on perception and attention in associative learning.</i>
10:00	B5: Jutta Billino: <i>Value-based modulation of visuo-motor control across adult life span.</i>
10:30	Coffee Break
11:00	E3: Mathias Hegele, Lisa Maurer, Hermann Müller: <i>Predictive Error Perception: Neural correlates and development in a complex motor task.</i>
11:30	E2: Johannes Kurz, Jörn Munzert, Mathias Hegele: <i>Shooting penalty kicks as accurately as possible: The goalkeeper has no impact on the penalty taker.</i>
12:30	Lunch
14:00	Niko Kriegeskorte (Cambridge): <i>Testing complex brain-computational models to understand how the brain works.</i>
15:00	C1: Roland Fleming: <i>Visual Categorization and Prediction of Deformable Materials.</i>
15:30	C2: Karl Gegenfurtner: <i>On the origin of color categories.</i>
16:00	Coffee Break
16:30	Poster session group C
18:30	Dinner
Evening	Discussion and drinks, work groups



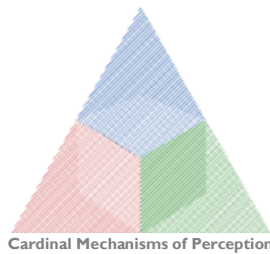
Sunday, May 29th Categorization

Time	
9:00	C3: Christina Kauschke, Gudrun Schwarzer: <i>Categorization of emotional information in words and faces during child development.</i>
9:30	C5: Mathias Hegele: <i>A mind divided? The animate-inanimate distinction in action and language perception.</i>
10:00	C6: Dominik Endres: <i>Perception of Modular Movement Primitives.</i>
10:30	<i>Coffee Break</i>
11:00	E1: Andreas Jansen, Anna Thorwart: <i>Neural correlates of emotion categorization: Development of network models.</i>
11:30	E5: Ben de Haas: <i>From a voxel's point of view: Visual fMRI using encoding models.</i>
12:30	<i>Lunch</i>
	<i>Departure</i>



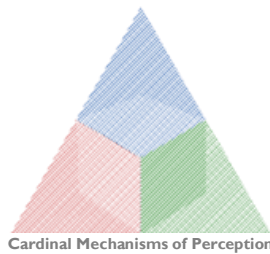
List of posters:

- A1: Doris Braun: Changes in visual sensitivity during smooth pursuit and saccadic eye movements.
Jan Churan: Directional precision for saccades and smooth pursuit in head unrestrained macaque monkeys.
Nick Ross: Discriminating curvature of motion trajectories during fixation and smooth pursuit.
Alexander Göttker: Interaction between pursuit and saccades and the effects on speed discrimination.
- A2: Milosz Krala: Predictive postural responses to imposed optic flow.
Constanze Schmidt: Processing of visually simulated self-motion – an EEG-study.
- A3: Bianca van Kemenade: Neural mechanisms of predicting multisensory consequences of one's own action.
Benjamin Straube: Predicting multisensory consequences of one's own actions: Results and outlook.
- A4: Dimitris Voudouris: Enhancing tactile information during reaching movements.
Hanna Gertz: Cortical representation of tactile suppression and enhancement.
Stefanie Müller: Effector movement influences the reference frames for proprioceptive reach targets.
- A5: Alexandra Lezkan: Going against the grain – Texture orientation affects direction of exploratory movement.
Anna Metzger: Haptic aftereffect of softness.
- A7: Claudia Kubicek: How 9-month-old infants' manual predictive abilities are related to their motor skills.
- B1: Judith Schomaker: The effects of visual and motivational salience on attention and reinforcement learning.
- B2: Christian Wolf: Effects of reward are caused by the necessity to choose.
Christian Wolf: Trans-saccadic integration of peripheral and foveal feature information is close to optimal.
- B3: Maria Matziridi: *t.b.a.*
- B4: Stephan König: Prediction, error, and attention under partial reinforcement.
- B5: Jing Huang: Age-related changes in saccadic adaptation.
Matteo Valsecchi: Investigating the optimality of pointing under risk across the lifespan.



- C1: Filipp Schmidt: Optical and shape cues to the visual perception of softness.
- C2: Elisabeth Baumgartner: Decoding color constancy with fMRI.
Christoph Witzel: Categorical information about perceivable colours.
David Weiß: A comparison between illuminant discrimination and chromatic detection.
- C3: Michael Vesker: Integrating lexical and facial information for emotion processing via cross-modal priming – A developmental perspective.
- C5: Friederike Seyfried: Unitary vs. modality-specific semantic knowledge in object perception: On the neural correlates of perceiving pictures, spoken and written words.
- C6: Benjamin Knopp: Perceptual validation of the vCGPDM modular movement primitive model.

- E1: Kim Wende: Neural mechanisms of emotion categorization during face perception: a combined fMRI and pupillometric study.
Ina Hübener: Seeing faces in random noise: A Brain network for illusory face perception.
Roman Kessler: Influence of Emotions on the Effective Connectivity in the Face Perception System.
- E2: Johannes Kurz: Reaching and Grasping in a natural environment: Task difficulty still matters.
Johannes Kurz: Shooting penalty kicks as accurately as possible: The goalkeeper has no impact on the penalty taker.
- E3: Michael Joch: Inference statistical analysis of continuous data based on confidence bands – traditional and new approaches.



List of Participants:

Invited Speakers:

Konrad Kording (Chicago)
Niko Kriegeskorte (Cambridge)
Simon Thorpe (Toulouse)
Yaffa Yeshurun (Haifa)

A1: Doris Braun
Frank Bremmer
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Nick Ross
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Benjamin Straube
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Ezgi Arıkan
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Hanna Gertz
Stefanie Müller
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Alexandra Lezkan
Anna Metzger
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Bianca Wittmann
Judith Schomaker
B2: Alexander Schütz
Christian Wolf
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Maria Matziridi
Hanna Kadel
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C2: Elisabeth Baumgartner
Christoph Witzel
Florian Schiller
C3: Christina Kauschke
Gudrun Schwarzer
Daniela Ludwig
Michael Vesker
C5: Mathias Hegele
Friederike Seyfried
C6: Dominik Endres
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Johannes Kurz
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Hermann Müller
Michael Joch
E4: Matteo Valsecchi
E5: Ben de Haas