

Naam: mw. prof. dr. C. Kemner

Profiel	
Leeropdracht	Biologische ontwikkelingspsychologie, met name ontwikkelingspsychopathologie (Biological Developmental Psychology, especially Developmental Psychopathology)
Faculteit	Sociale Wetenschappen (SW)
Onderdeel	Ontwikkelingspsychologie
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Onderzoek	<ul style="list-style-type: none">• The main theme of the research in my lab in the past years has been the role of low-level, perceptual factors in face and emotion processing, especially in relation to autism. In general, we study both behaviour and brain activity (the latter mostly by measuring event-related potentials or ERPs, and sometimes fMRI), in children and adults. As subjects with autism show increased detail processing, we have done several studies on the effects of manipulation of the detail content of social and nonsocial stimuli by filtering their spatial frequency content (as high and low spatial frequencies reflect aspects of respectively details and coarse stimulus features). We have looked specifically to the effects of filtering on face, emotion and eye cue processing. Recently, we have taken a developmental scope on this issue, and we have started to compare spatial frequency related effects in different age groups.• To relate abnormalities in early visual perception to a specific neural substrate, related to stimulus integration, we have studied the role of feedforward and recurrent processing in visual perception in autism and schizophrenia (in collaboration with Victor Lamme, Amsterdam University). In addition, we have studied the integrative capacity of subjects with autism with respect to lowlevel multimodal integration (in collaboration with Maarten van der Smagt, Utrecht University) and multimodal integration in speech and emotion processing (in collaboration with Bea de Gelder, Tilburg University). Other studies on visual perception in autism have focussed on eye movements parameters, looking behaviour in search tasks (in collaboration with Ignace Hooge, Utrecht University) and to faces, and EMG responses to emotional expressions.• Another research line is on the relation between schizophrenia and autism, as there is both clinical and biological reason to assume a (partial) aetiological overlap. To this aim, we study subjects with autism or schizophrenia, as well as several other diagnostic groups that show characteristics of these disorders (e.g. subjects with Klinefelter syndrome, 22q11 deletion syndrome and Multiple Complex Developmental Disorder). We have done studies of classical (psychophysiological) marker tasks for schizophrenia in these groups. Current studies focus on the relation between clinical symptoms in groups of clinical subjects with symptoms of autism and/or schizophrenia, and ERP reflections of social and perceptual processing.
Externe erkenning	<ul style="list-style-type: none">• NWO VIDI 2002• NWO VICI 2007
Publicaties	<ul style="list-style-type: none">• Boeschoten MA, Kenemans JL, Engeland HV, Kemner C (2007). Abnormal

	<p>spatial frequency processing in high-functioning children with pervasive developmental disorder (PDD). <i>Clin Neurophysiol</i>, 118, 2076-88.</p> <ul style="list-style-type: none"> • de Jong MC, van Engeland H, Kemner C (2008). Attentional effects of gaze shifts are influenced by emotion and spatial frequency, but not in autism. <i>J Am Acad Child Adolesc Psychiatry</i>, 47, 443-454. • Kemner C, van Ewijk L, van Engeland H, Hooge I (2008). Brief Report: Eye Movements During Visual Search Tasks Indicate Enhanced Stimulus Discriminability in Subjects with PDD. <i>J Autism Dev Disord</i>, 38, 553-557 • Magnée MJ, de Gelder B, van Engeland H, Kemner C (2008). Audiovisual speech integration in pervasive developmental disorder: evidence from event-related potentials. <i>J Child Psychol Psychiatry</i>, 49, 995-1000. • Vandenbroucke MW, Scholte HS, Engeland HV, Lamme VA, Kemner C (2008). A neural substrate for atypical low-level visual processing in autism spectrum disorder. <i>Brain</i>, 131, 1013-1024.
Onderwijs	
Neven-werkzaamheden	Head of the Psychophysiological Laboratory of the Dept. of Child and Adolescent Psychiatry, UMCU.
Curriculum vitae	<ul style="list-style-type: none"> • 1982-1987 Msc Biopsychology, Utrecht University. • 1988-1992 PhD student Psychopharmacology, Utrecht University. • 1992-1995 Postdoc Utrecht University, Medical Department. • 1995- present Head of the Psychophysiological Laboratory of the Dept. of Child and Adolescent Psychiatry, UMCU. Member of the Rudolf Magnus Institute of Neuroscience. • 2005-2008 Professor of Developmental Cognitive Neuroscience, Maastricht University.