



College of Liberal Arts and Sciences
Department of Psychology &
Center for the Study of Emotion and Attention

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Curriculum Vitae: Andreas Keil

Education

10/1990-07/1997	Study of Psychology and Statistics at the University of Konstanz, Germany
09/1994-04/1995	Internship in a psychiatric specialty clinic for patients with dual diagnosis (i.e. mental retardation and psychiatric diagnoses)
06/1997	Academic degree 'Diplompsychologe' (MA in Psychology), minor degree in Mathematical Statistics
11/1997-01/2000	Graduate study in the project 'Oscillatory event-related brain dynamics and associative learning', funded by DFG. Advisors: Dr. Thomas Elbert, Dr. Matthias M. Müller
02/2000	PhD in Psychology 'Summa Cum Laude' Doctoral Dissertation 'Oscillatory brain activity in human affective stimulus processing'

Positions and honors

05/1999	Awarded the young investigator's award of the Biological Psychology Section of the German Society for Psychology (DGPs)
07/1999	Awarded the GA-Lienert award for Psychophysiological methods.
02/2000	PhD in Psychology, University of Konstanz; 'Summa Cum Laude'
02/2000-05/2000	Visiting researcher at the NIMH Center for the Study of Emotion and Attention, University of Florida, Gainesville, USA, Drs Margaret M. Bradley and Peter J. Lang.
06/2000	Awarded the young scientists award of the German Society for Psychophysiology (DGPA)
11/2000-11/2004	Assistant Professor, University of Konstanz, Clinical Psychology and Cognitive Neurosciences
07/2001-08/2001	Visiting researcher at the NIMH Center for the Study of Emotion and Attention, University of Florida, Gainesville, USA
06/2002	Elected to the academy of sciences 'JUNGE AKADEMIE' at Berlin (<i>Berlin-Brandenburgische Akademie der Wissenschaften</i> and the <i>Deutsche Akademie der Naturforscher Leopoldina</i>)

07/2003-07/2004	Member of the Board of Directors of the 'JUNGE AKADEMIE'.
06/2003	"Habilitation" (Venia legendi for Psychology = Licensed for teaching in the field of Psychology)
12/2004-01/2007	Associate Professor (C2) of Clinical Psychology and Cognitive Neuroscience, University of Konstanz, Germany.
02/2007-08/2012	Associate Professor of Psychology, Department of Psychology and NIMH Center for the Study of Emotion and Attention, University of Florida.
10/2011-10/2013	Chair, EEG/MEG Guidelines Committee, Society for Psychophysiological Research
09/2012-present	Professor of Psychology, Department of Psychology, University of Florida
2013-2014	Colonel Allen R. and Margaret G. Crow Term Professorship, College of Liberal Arts and Sciences, University of Florida
2015-2017	Research Foundation Professor, University of Florida
2017-2019	University of Florida Term Professor

Editor for scientific journals

2004/2005	Associate Editor: BIOLOGICAL PSYCHOLOGY
2006-2019	Associate Editor: PSYCHOPHYSIOLOGY
2019-present	Senior Editor: PSYCHOPHYSIOLOGY
2010-present	Editorial Board Member: FRONTIERS IN COGNITION
2017-present	Editorial Board Member: FRONTIERS IN NEUROSCIENCE
2010-present	Editorial Board Member: FRONTIERS IN PERCEPTION SCIENCE
2011-present	Editorial Board Member: PLOS ONE
2015-present	Section Editor in Chief: MethodsX
2016-2017	Guest Editor: Special Issue on Reliability, PSYCHOPHYSIOLOGY

Referee for scientific journals (last three years, selected):

JAMA Psychiatry	Nature Communications
Journal of Cognitive Neuroscience	Scientific Reports
IEEE Transactions on Biomedical Engineering	Journal of Neuroscience
Journal of Experimental Psychology: HPP & GEN	Psychonomic Bulletin and Review
NeuroImage and NeuroImage: Clinical	Biological Psychology
Emotion	Biological Psychiatry
Cerebral Cortex	Psychological Science
Current Biology	Quarterly J. of Experimental Psychology

Grant reviewing

National Institutes of Health (Member, study section *Mechanisms of Sensory, Perceptual, and Cognitive Processes*, SPC, 2015-2020).

Ad hoc reviewer on study sections F02A, SPC, APDA, NPAS, several SEPs); National Science Foundation (CogNeuro panel); Israeli Science Foundation; US-Israeli Research Foundation; German Research Council (DFG); Wellcome Trust; New Jersey Autism Initiative; UK Biotechnology and Biological Sciences Research Council; Swiss, Australian, Canadian, and Austrian National Science Foundations.

Teaching

Psychobiology of Abnormal Behavior PSB 4240 (every Spring)

Lab in Cognitive Neuroscience PSB 4343C (every Fall)

Other past teaching: Neurobehavioral Relations; Sensory Processes; Abnormal Psychology.

Grant funding, active

R01 MH112558A (Ding/Keil MPI)

04/02/2017-03/01/2022

2.5 cal mos

NIH/NIMH

Emotional Engagement Driven by Complex Visual Stimuli: Neural Dynamics Revealed by Multimodal Imaging

This research defines the interactions between brain regions underlying emotional responses when observers

explore complex audiovisual scenes containing socially pleasant, neutral, or unpleasant scene elements.

Role: Multiple PI

R21 MH120829-01 (Lang/Keil MPI)

07/01/2019-05/31/2021

1.2 cal mos

NIH/NIMH

Anxiety and aversive learning: Neural mechanics of generalization and patterns of disorder pathology

This application examines overgeneralization to mild social threat cues in those with social anxiety symptoms

Role: Multiple PI

NSF 1540888 (Antonenko)

09/15/2015-08/31/2020

0.25 cal mos

National Science Foundation (NSF)

SL-CN: Project LENS: Leveraging Expertise in Neurotechnologies to Study Individual Differences in Multimedia Learning

The purpose of this collaborative network is to capitalize on the strengths of each node leveraging expertise in cognitive neuro-technologies (Electroencephalography, functional Near Infrared Spectroscopy, and eye tracking) to enable a rigorous interdisciplinary research ecosystem. Project LENS will advance fundamental research about learning through integrative neurocognitive conceptual and empirical approaches.

Role: Co-PI

NSF 1728133 (Scott)

09/01/2017-08/31/2020

1.0 cal mos

National Science Foundation (NSF)

Reliable and Robust Infant Brain Responses During Face Learning

This research examines neural specialization in response to experience, in 6-, 9-, and 12-month-old infants, using (a) event-related potentials (ERPs), (b) steady-state visual evoked potentials (ssVEP) and (c) oscillatory EEG activity in the alpha range, before, during, and after a brief learning period.

Role: Co-I

N00014-14-1-0542 (Principe)

04/01/2018-03/31/2021

1.0 cal mos

Office of Naval Research

An Information-Theoretic Reinforcement Learning Framework for Autonomous Navigation

Examines and models how humans learn to spatially navigate unfamiliar surroundings containing threats and rewards.

Role: Co-PI

US AIR FORCE (Principe)

04/01/2017-03/31/2020

1.0 cal mos

An Active Architecture for Memory and Perception

Role: Co-PI

Grant funding, past, selected

Office of Naval Research: Design, Implementation, and Testing of a Computational Architecture for Perception. (05/2014-04/2017; no-cost extension to 12/2017). PI: Principe, UF Engineering. Keil: Co-PI (71,000 USD annually in direct costs)

National Institutes of Mental Health (NIMH): *R01 MH097320 Acquisition and Extinction of Affective Biases in Perception: A single Trial Analysis.* (03/2012-02/2017; no-cost extension to 02/2018). Keil: PI (MPI with Mingzhou Ding, UF Engineering) Sub Keil: 125,000 USD annually in direct costs

UF Clinical and Translational Science Institute-PRICE pilot grant: Trait Negative Affect & Blunted Emotional Reactivity: Predictors of Clinical Symptoms & Intervention Outcome in Older Adults with Chronic Pain (09/2016-08/2017). Keil: PI (23,000 USD total).

US Department of Defense: Prospective EEG/fMRI Evaluation of Neuro-Feedback for Military Stress Regulation (05/2010-04/2015). Keil: Co-I (19,000 USD annually in direct costs)

National Science Foundation (NSF): Quantifying Causality and Dependency in Complex Brain Networks. (09/2010-09/2015). Keil: Co-PI (47,000 USD in direct costs)

Diretoria de Ciências Agrárias, Biológicas e da Saúde, Department of Science, Technology, and Innovation, Brazil: Post-doctoral training grant for Dr. Rafaela Campagnoli (01/2016-12/2016). Keil: Mentor (29,000 USD in Stipend for Dr. Campagnoli)

National Institutes of Mental Health (NIMH): *R01 Hypervigilance versus Perceptual Avoidance in Social Phobia.* (08/2009-07/2013). Keil: PI (250,000 USD annually in direct costs)

Canadian Institutes of Health Research (CIHR): Post-doctoral research training grant to Dr. Vladimir Miskovic (2011-2013), Mentor: A Keil.

Kurt Lion Foundation: *Integrating Diffusion Tensor Imaging and Magnetoencephalography.* (2007-2009).

Society for Psychophysiological Research (SPR): *International Mentorship and Training Award* (06/2009-10/2010).

German Research Foundation (DFG): *Central nervous and behavioral dynamics in human emotional stimulus processing* (2001-2007).

German Research Foundation (DFG): *Brain asymmetries associated with affective processing of visual scenes and written language.* Part of center grant 'Functional asymmetries of cerebral activations' (Director: Dr. Brigitte Rockstroh, ended 12/2005).

Federal Republic of Germany - Department of Science and Education: Young Academy Grant – Trans-Disciplinary Projects for Humanities and Natural Science (2005-2009)

German Research Foundation (DFG): *Limits of intentionality - neural underpinnings of automatic attitude formation.* (2005-2011)

German Research Foundation (DFG): *Dynamics of the Human Defense Cascade.* (2006-2009).

German Research Foundation (DFG): *Regulation of attention across the life span.* (2006-2008).

Students' Awards and Honors (A. Keil mentor, international)

Vladimir Miskovic (post-doctoral mentee). Designated a “2016 Rising Star” by the American Society for Psychological Science (APS).

Matthias Wieser (post-doctoral mentee). Award for Distinguished Early Career Contributions to Psychophysiology, 2015. Awarded at the Annual Meeting of the Society for Psychophysiological Research, Seattle, WA. October 2015.

Nina N. Thigpen (graduate student). Best poster award, Awarded at the Annual Meeting of the Society for Psychophysiological Research, Seattle, WA. October 2015.

Invited lectures and symposia, key notes, and talks with awards

Antonenko, P., Schneps, M., Lamb, R., Keil, A., Pomplun, M., Dawson, K., Koh, D., H., Saunders, K., Wang, J., Burgess, A., Cheng, L., Xu, Z., Li, J., Hardy-Pieczarka, K., Okundaye, A. O., Calhoun, C., Stieglitz, K., & Miller, S. (2018). Sex differences in mental rotation performance using 2D and 3D molecular representations. To presented at the 2018 Conference of the American Educational Research Association, New York, NY. AERA 2018 SIG-IT Best Paper Award.

“Cross-frequency coupling in resting electroencephalography: being fancy while maintaining rigor”, **Invited lecture**. Rutgers University, Newark, NJ, February 2017

“Threat versus Safety in Human Visual Cortex How Affective Experience Impacts Perception,” **Invited lecture**. Baylor College of Medicine, Houston, TX, January 2017

“Threat versus Safety in Human Visual Cortex: How Affective Experience Impacts Perception”. **Symposium talk**, Biannual Meeting of the International Organization of Psychophysiology, Havana, Cuba, September 2016

“Affective Experience and Visual Perception”. **Symposium talk**, Annual Meeting of the Cognitive Neuroscience Society, New York City, NY, March 2016

“Threat versus Safety in Human Visual Cortex: How Affective Experience Impacts Perception”. **Symposium Presentation** given at the European Conference on Visual Perception, Liverpool, UK, September 1st 2015

“Differential visual cortical engagement during retention of object features in visual short-term memory: Amplification versus competition” **Symposium Presentation** given at the Annual Meeting of the Society for Psychophysiological Research, Seattle, WA, USA, September 15th 2015

“Face processing in social anxiety: Inter-individual differences in cortical networks within and beyond the classical visual hierarchy”. **Invited lecture** given at Bi-annual Meeting of the Wuerzburg graduate program in emotion science, Würzburg, Germany, October 15th, 2015.

“Threat versus Safety in Human Visual Cortex: How Affective Experience Impacts Perception”. **Invited Lecture** given at the Federal University of Brazil, Rio de Janeiro, Brazil, July 26th, 2015

“Quantifying affective reactivity in the human Neuroscience Laboratory”. **Invited Lecture** given at the Fluminense University, Niteroi, Brazil, July 27th, 2015

“Emotion, Motivation, Behavior: Conceptual and Neurophysiological Relations”. **Invited lecture** given at University of Berne, Switzerland, May 20th, 2015

“Faces in visual cortex: Basic and translational research using electrophysiology”. **Invited lecture**. Meeting on Person Perception, Emotions, and Social Cognitive Neuroscience; October 9-10, 2014; Friedrich Schiller University Jena, Germany

“Why is there a "Neuro" in Neuro-Psychology?” **Invited lecture**. November 22, 2014; University of Konstanz, Germany.

“Emotion and Attention” – an update”. **Invited lecture**. Ghent University October 22, 2014; Ghent, Belgium.

“Motivated Perception- Conceptual, behavioral, and neurophysiological underpinnings of seeing what matters”,
Invited lecture. June 25, 2014; University of Zürich, Switzerland

Service at the University of Florida

Faculty mentoring committees: Drs Natalie Ebner (2013-2017) and Dr. Lisa Scott (2015-2017)

Merit Committee, Dept. of Psychology (2007-2008, 2011-2012, 2015-2016, 2019-2020)

Graduate Studies Committee, Dept. of Psychology (2014-2017)

Undergraduate Studies Committee, Dept. of Psychology (2014-2017)

Diversity Liaison, Dept. of Psychology (2016-present)

CLAS Tenure and Promotion committee (2019-2021)

Area Director, Behavioral and Cognitive Neuroscience (2019-present)

Graduate Student Mentoring (UF only)

Past primary graduate student mentees at UF:

Menton M Deweese (2009-2014; now directs academic outreach, Vanderbilt University)

Inkyung Song (2010-2014; now post-doctoral fellow, SUNY Downstate)

L. Forest Gruss (2012-2017; post-doctoral fellow, University of South Florida)

Nate M. Petro (2013-2017; post-doctoral fellow, UNL)

Nina N. Thigpen (2014-2018; GoogleX)

Co-chair, graduate students at UF:

Xiaomeng Yuan (2016-2017, joined my lab late and has now graduated, I am looking to place her now).

Yao Guan (2012-present, does her PhD research in my lab).

Melissa Cervantez (2012-2018, does her PhD research in my lab).

I currently serve on approximately 20 graduate student's committees, in 5 colleges at UF: CLAS, Engineering, Education, Music, & College of Health Professions.

List of Publications

Articles in peer-reviewed journals

2019

Thigpen, N., Petro, N. M., Oschwald, J., Oberauer, K., & Keil, A. (2019). Selection of Visual Objects in Perception and Working Memory, One at a Time. *Psychological Science*, 30(9), 1259–1272.
<https://doi.org/10.1177/0956797619854067>

Panitz, C., Keil, A., & Mueller, E. M. (2019). Extinction-resistant attention to long-term conditioned threat is indexed by selective visuocortical alpha suppression in humans. *Scientific Reports*, 9(1), 1–9.
<https://doi.org/10.1038/s41598-019-52315-1>

Boylan, M. R., Kelly, M. N., Thigpen, N. N., & Keil, A. (2019). Attention to a threat-related feature does not interfere with concurrent attentive feature selection. *Psychophysiology*, 56(6), e13332.
<https://doi.org/10.1111/psyp.13332>

Campagnoli, R. R., Wieser, M. J., Gruss, L. F., Boylan, M. R., McTeague, L. M., & Keil, A. (2019). How the visual brain detects emotional changes in facial expressions: Evidence from driven and intrinsic brain oscillations. *Cortex*, 111, 35–50. <https://doi.org/10.1016/j.cortex.2018.10.006>

Eidelman-Rothman, M., Ben-Simon, E., Freche, D., Keil, A., Handler, T., & Levit-Binnun, N. (2019). Sleepless and desynchronized: Impaired inter trial phase coherence of steady-state potentials following sleep deprivation. *NeuroImage*, 202, 116055. <https://doi.org/10.1016/j.neuroimage.2019.116055>

Gruss, L. F., & Keil, A. (2019). Sympathetic responding to unconditioned stimuli predicts subsequent threat expectancy, orienting, and visuocortical bias in human aversive Pavlovian conditioning. *Biological Psychology*, 140, 64–74. <https://doi.org/10.1016/j.biopsych.2018.11.009>

Heim, S., & Keil, A. (2019). Quantifying Intermodal Distraction by Emotion During Math Performance: An Electrophysiological Approach. *Frontiers in Psychology*, 10. <https://doi.org/10.3389/fpsyg.2019.00439>

Ji, H., Chen, B., Petro, N. M., Yuan, Z., Zheng, N., & Keil, A. (2019). Functional Source Separation for EEG-fMRI Fusion: Application to Steady-State Visual Evoked Potentials. *Frontiers in Neurorobotics*, 13. <https://doi.org/10.3389/fnbot.2019.00024>

Petro, N. M., Thigpen, N. N., Garcia, S., Boylan, M. R., & Keil, A. (2019). Pre-target alpha power predicts the speed of cued target discrimination. *NeuroImage*, 189, 878–885.
<https://doi.org/10.1016/j.neuroimage.2019.01.066>

Mirifar, A., Keil, A., Beckmann, J., & Ehrlenspiel, F. (2019). No Effects of Neurofeedback of Beta Band Components on Reaction Time Performance. *Journal of Cognitive Enhancement*, 3(3), 251–260.
<https://doi.org/10.1007/s41465-018-0093-0>

2018

McTeague, L. M., Laplante, M.-C., Bulls, H. W., Shumen, J. R., Lang, P. J., & Keil, A. (2018). Face Perception in Social Anxiety: Visuocortical Dynamics Reveal Propensities for Hypervigilance or Avoidance. *Biological Psychiatry*, 83(7), 618–628. <https://doi.org/10.1016/j.biopsych.2017.10.004>

Ji, H., Petro, N. M., Chen, B., Yuan, Z., Wang, J., Zheng, N., & Keil, A. (2018). Cross multivariate correlation coefficients as screening tool for analysis of concurrent EEG-fMRI recordings. *Journal of Neuroscience Research*, 96(7), 1159–1175. <https://doi.org/10.1002/jnr.24217>

Thigpen, N. N., Bradley, M. M., & Keil, A. (2018). Assessing the relationship between pupil diameter and visuocortical activity. *Journal of Vision*, 18(6), 7-7.

Thigpen, N. N., Keil, A., & Freund, A. M. (2018). Responding to emotional scenes: effects of response outcome and picture repetition on reaction times and the late positive potential. *Cognition and Emotion*, 32(1), 24–36. <https://doi.org/10.1080/02699931.2016.1266305>

Barry-Anwar, R., Hadley, H., Conte, S., Keil, A., & Scott, L. S. (2018). The developmental time course and topographic distribution of individual-level monkey face discrimination in the infant brain. *Neuropsychologia*, 108, 25-31.

Wang, J., Dawson, K., Saunders, K., Ritzhaupt, A., Antonenko, P., Lombardino, L., Keil, A., Dogan, N., Luo, W., Cheng, L., Davis, R. O. (2018). Investigating the effects of modality and multimedia on the learning performance of college students with dyslexia. *Journal of Special Education Technology*, 33, 182-193.

Bekhtereva, V., Pritschmann, R., Keil, A., & Müller, M. M. (2018). The neural signature of extracting emotional content from rapid visual streams at multiple presentation rates: A cross-laboratory study. *Psychophysiology*, 55(12), e13222. <https://doi.org/10.1111/psyp.13222>

Guan, Y., Farrar, M. J., & Keil, A. (2018). Oscillatory brain activity differentially reflects false belief understanding and complementation syntax processing. *Cognitive, Affective, & Behavioral Neuroscience*, 18(1), 189–201. <https://doi.org/10.3758/s13415-018-0565-9>

Thigpen, N. N., Gruss, L. F., Garcia, S., Herring, D. R., & Keil, A. (2018). What does the dot-probe task measure? A reverse correlation analysis of electrocortical activity. *Psychophysiology*, 55(6), e13058. <https://doi.org/10.1111/psyp.13058>

2017

Thigpen, N. N., Bartsch, F., Keil, A. (2017). The malleability of emotional perception: Short-term plasticity in retinotopic neurons accompanies the formation of perceptual biases to threat. *Journal of Experimental Psychology: General*. 146(4), 464–471.

Petro, N. M., Gruss, L. F., Yin, S., Huang, H., Miskovic, V., Ding, M., & Keil, A. (2017). Multimodal Imaging Evidence for a Frontoparietal Modulation of Visual Cortex during the Selective Processing of Conditioned Threat. *Journal of Cognitive Neuroscience*, 29(6), 953–967. https://doi.org/10.1162/jocn_a_01114

Kappenman, E. S., & Keil, A. (2017). Introduction to the special issue on re-centering science: Replication, robustness, and reproducibility in psychophysiology. *Psychophysiology*, 54(1), 3–5. <https://doi.org/10.1111/psyp.12787>

Thigpen, N. N., Kappenman, E. S., & Keil, A. (2017). Assessing the internal consistency of the event-related potential: An example analysis. *Psychophysiology*, 54(1), 123–138. <https://doi.org/10.1111/psyp.12629>

Schweiger Gallo, I., Fernández-Dols, J.-M., Gollwitzer, P. M., & Keil, A. (2017). Grima: A Distinct Emotion Concept? *Frontiers in Psychology*, 8. <https://doi.org/10.3389/fpsyg.2017.00131>

2016

Gruss, L. F., Langae, T., & Keil, A. (2016). The role of the COMT val158met polymorphism in mediating aversive learning in visual cortex. *NeuroImage*, 125, 633-642.

Schettino, A., Keil, A., Porcu, E., & Müller, M. M. (2016). Shedding light on emotional perception: Interaction of brightness and semantic content in extrastriate visual cortex. *NeuroImage*. 133, 341-353.

Sibille, K. T., Bartsch, F., Reddy, D., Fillingim, R. B., & Keil, A. (2016). Increasing Neuroplasticity to Bolster Chronic Pain Treatment: A Role for Intermittent Fasting and Glucose Administration? *The Journal of*

Pain, 17, 275–281. <http://doi.org/10.1016/j.jpain.2015.11.002>

Deweese, M.M., Müller, M. M., & Keil, A. (2016). Extent and Time Course of Competition in Visual Cortex between Emotionally Arousing Distractors and a Concurrent Task. *European Journal of Neuroscience*. 43, 961–970.

Wieser, M. J., Miskovic, V., & Keil, A. (2016). Steady-state visual evoked potentials as a research tool in social affective neuroscience. *Psychophysiology*, 53(12), 1763–1775.

Kang, D., Liu, Y., Miskovic, V., Keil, A., & Ding, M. (2016). Large-scale functional brain connectivity during emotional engagement as revealed by beta-series correlation analysis. *Psychophysiology*, 53(11), 1627–1638.

Heim, S., & Keil, A. (2016). Predicting Real-Life Cognitive Performance from Laboratory Data: A Case for Developmental Studies Using the Attentional Blink. *Brain Disorders and Therapy*, 5(210), 2.

2015

McTeague, L. M., Gruss, L. F., & Keil, A. (2015). Aversive learning shapes neuronal orientation tuning in human visual cortex. *Nature Communications*, 6.

Smith, D. W., & Keil, A. (2015). The Biological Role of the Medial Olivocochlear Efferents in Hearing: Separating Evolved Function from Exaptation. *Frontiers in Systems Neuroscience*, 9(12).

Miskovic, V., Martinovic, J., Wieser, M. J., Petro, N. M., Bradley, M. M., & Keil, A. (2015). Electrocortical amplification for emotionally arousing natural scenes: The contribution of luminance and chromatic visual channels. *Biological Psychology*, 106, 11-17.

Miskovic, V., & Keil, A. (2015). Reliability of event-related EEG functional connectivity during visual entrainment: Magnitude squared coherence and phase synchrony estimates. *Psychophysiology*, 52 (1), 81-89.

Bartsch, F., Hamuni, G., Miskovic, V., Lang, P. J., & Keil, A. (2015). Oscillatory brain activity in the alpha range is modulated by the content of word-prompted mental imagery. *Psychophysiology*, 52 (6), 727–735.

Ben-Simon, E., Oren, N., Sharon, H., Kirschner, A., Goldway, N., Okon-Singer, H., Deweese, M. M., Keil, A., Hendler, T. (2015). Losing Neutrality: The Neural Basis of Impaired Emotional Control without Sleep. *The Journal of Neuroscience*, 35(38), 13194–13205.

Hazrati, M., Miskovic, V., Principe, J., & Keil, A. (2015). Functional Connectivity in Frequency-Tagged Cortical Networks During Active Harm Avoidance. *Brain Connectivity*. 5(5): 292-302.

Petro, N. M., & Keil, A. (2015). Pre-target oscillatory brain activity and the attentional blink. *Experimental Brain Research*, 233 (12), 3583-3595.

2014

Wieser, M. J. & Keil, A. (2014). Fearful faces heighten the cortical representation of contextual threat. *Neuroimage*, 86, 317-325.

Miskovic, V., & Keil, A. (2014). Escape from Harm: Linking Affective Vision and Motor Responses During Active Avoidance. *Social, Cognitive, and Affective Neuroscience*, 9 (12), 1993-2000.

Srinivasan, S., Keil, A., Stratis, K., Osborne, A. F., Cerwonka, C., Wong, J., Rieger, B.L., Polcz, V., Smith, D.W. (2014). Interaural attention modulates outer hair cell function. *European Journal of Neuroscience*, 40, 3785-3792

Wieser, M. J., Miskovic, V., Rausch, S., & Keil, A. (2014). Different time course of visuocortical signal changes to fear-conditioned faces with direct or averted gaze: a ssVEP study with single-trial analysis.

Neuropsychologia, 62, 101-110.

Keil, A., Debener, S., Gratton, G., Junghofer, M., Kappenman, E. S., Luck, S. J. (2014). Publication guidelines and recommendations for studies using electroencephalography and magnetoencephalography. *Psychophysiology*, 51, 1-21.

Song, I., & Keil, A. (2014). Differential classical conditioning selectively heightens response gain of neural population activity in human visual cortex. *Psychophysiology*, 51, 1185-1194.

Weymar, M., Keil, A., & Hamm, A. O. (2014). Timing the fearful brain: unspecific hypervigilance and spatial attention in early visual perception. *Social, Cognitive, and Affective Neuroscience*, 9, 723-729.

Deweese, M. M., Bradley, M. M., Lang, P. J., Andersen, S. K., Muller, M. M., & Keil, A. (2014). Snake fearfulness is associated with sustained competitive biases to visual snake features: hypervigilance without avoidance. *Psychiatry Research*, 219, 329-335.

Ji, H., Chen, B., Yuan, Z., Zheng, N., Keil, A., Principe, J.C., 2014. Online Nonlinear Granger Causality Detection by Quantized Kernel Least Mean Square. *Neural Information Processing. Lecture Notes in Computer Science*, 8835, 68-75.

2013

Keil, A., Miskovic, V., Gray, M. J., & Martinovic, J. (2013). Luminance, but not chromatic visual pathways, mediate amplification of conditioned danger signals in human visual cortex. *European Journal of Neuroscience*, 38(9), 3356-3362.

Miskovic, V. & Keil, A. (2013). Perceiving Threat In the Face of Safety: Excitation and Inhibition of Conditioned Fear in Human Visual Cortex. *Journal of Neuroscience*, 33, 72-78.

Fadlallah, B., Chen, A., Keil, A., Principe, J. (2013). Weighted-permutation entropy: A complexity measure for time series incorporating amplitude information. *Physical review E*. 87: 022911.

Sabatinelli D., Keil A., Frank D.W., Lang P.J. (2013). Emotional perception: Correspondence of early and late event-related potentials with cortical and subcortical functional MRI. *Biological Psychology*, 92, 513-519.

Hajcak, G., Macnamara, A., Foti, D., Ferri, J., Keil, A. (2013). The dynamic allocation of attention to emotion: Simultaneous and independent evidence from the late positive potential and steady state visual evoked potentials. *Biological Psychology*, 92, 447-455.

Freund, A.M., Keil, A. (2013). Out of mind, out of heart: Attention affects duration of emotional experience. *Cognition and Emotion*. 27: 549-557.

Heim, S., Keil, A., Choudhury, N., Thomas Friedman, J., & Benasich, A. A. (2013). Early gamma oscillations during rapid auditory processing in children with a language-learning impairment: Changes in neural mass activity after training. *Neuropsychologia*, 51(5), 990-1001.

Kaan, E., Wayland, R., & Keil, A. (2013). Changes in Oscillatory Brain Networks After Lexical Tone Training. *Brain Sciences*, 3, 757-780

Ihsen, N., & Keil, A. (2013). Accelerative and Decelerative Effects of Hedonic Valence and Emotional Arousal During Visual Scene Processing. *Quarterly Journal of Experimental Psychology*, 66, 1276-1301.

Heim, S., Ihssen, N., Hasselhorn, M., & Keil, A. (2013). Early adolescents show sustained susceptibility to cognitive interference by emotional distractors. *Cognition and Emotion*, 27, 696-706.

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