

# Curriculum Vitae

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Alexander V. Maier, Ph.D.

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College of Arts and Science  
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## **Positions:**

2011-present: **Assistant Professor**, Vanderbilt University, Nashville, TN, USA  
2009-2011: **Research Fellow**, National Institutes of Health (NIH), Bethesda, MD, USA  
2004-2008: **Visiting Fellow**, Unit of Cognitive Neurophysiology and Imaging,  
National Institutes of Mental Health (NIMH), Bethesda, MD, USA

## **Education:**

2005: **Ph.D.** (“*summa cum laude*”) in Neural and Behavioral Sciences  
Max-Planck-Institute for Biological Cybernetics, Tübingen, Germany &  
Graduate School for Behavioral and Neurosciences, Tübingen, Germany  
2002: **M.Sc.** in Neurobiology, Ludwig-Maximilians-University, Munich, Germany  
1999: **B.Sc.** in Biology, Ludwig-Maximilians-University, Munich, Germany

## **Honors / Awards:**

**2015:** Kavli Fellow (*National Academy of Sciences*)  
**2015:** Outstanding Teacher of the Year (*Vanderbilt Brain Institute*)  
**2014:** Janett Rosenberg Trubatch Career Development Award (*Society for Neuroscience*)  
**2013:** Alfred P. Sloan Research Fellowship Award (*Sloan Foundation*)  
**2009:** Fellows Award of Research Excellence (*National Institutes of Health*)  
**2006:** Klaus Tschira Award (*German National Merit Foundation*)  
**2006:** Julius Axelrod Memorial Fellowship Award (*National Institutes of Health*)

## **Publications**

Shapcott, K.A., Schmiedt, J.T., Saunders, R.C., **Maier, A.**, Leopold, D.A. & Schmid, M.C. (2016)  
Correlated activity of cortical neurons survives extensive removal of feedforward sensory input.  
*Nature Sci. Rep.* doi: 10.1038/srep34886.

Foster, B.L., He, B.J., Honey, C.J., Jerbi, K., **Maier, A.**, Saalman, Y.B., (2016)  
Spontaneous neural dynamics and multi-scale network organization.  
*Front. Syst. Neurosci.* doi:10.3389/fnsys.2016.00007

Dougherty, K., Cox, M.A., Ninomiya, T., Leopold, D.A. & **Maier, A.** (2015)  
Ongoing alpha activity in V1 regulates visually driven spiking responses.  
*Cereb. Cortex* doi:10.1093/cercor/bhv304

Cox, M.A. & **Maier, A.** (2015)  
Filling-in the details of spatial interpolation: New evidence for parallel processing in mid-level vision.

- Ninomiya, T., Dougherty, K., Godlove, D.C., Schall, J.D. & **Maier, A.** (2015)  
Microcircuitry of agranular frontal cortex: contrasting connectivity between occipital and frontal areas.  
*J. Neurophysiol.* 112:3242-3252  
PMCID: PMC4440241
- Schmid, M.C. & **Maier, A.** (2015)  
To see or not to see - thalamo-cortical networks during blindsight and perceptual suppression.  
*Prog. Neurobiol.* 126:36-48
- Maier, A.**, Cox, M.A., Dougherty, K., Moore, B & Leopold, D.A. (2014)  
Anisotropy of ongoing neural activity in primate visual cortex.  
*Eye and Brain* 6(1):113-120
- Schmiedt, J.T., **Maier, A.**, Fries, P., Saunders, R.C., Leopold, D.A. & Schmid, M.C. (2014)  
Beta oscillations dynamics in extrastriate cortex after removal of primary visual cortex.  
*J. Neurosci.* 34(35):11857-11864  
PMCID: PMC4145181
- Godlove, D.C., **Maier, A.**, Woodman, G.F. & Schall, J.D. (2014)  
Microcircuitry of agranular frontal cortex: Testing the generality of the canonical cortical microcircuit.  
*J. Neurosci.* 34(15):5355-5369  
PMCID: PMC3983808
- Cox, M.A., Lowe, K.A., Blake, R. & **Maier, A.** (2014)  
Sustained perceptual invisibility of solid shapes following contour adaptation to partial outlines.  
*Consciousness and Cognition* 26:37-50
- Ghose, D., **Maier A.**, Nidiffer, A.R. & Wallace, M.T. (2014)  
Multisensory response modulation in the superficial layers of the superior colliculus.  
*J. Neurosci.* 34(12):4332-4344  
PMCID: PMC3960472
- Schmid, M.C., Schmiedt, J.T., Peters, A.J., Saunders, R.C., **Maier, A.** & Leopold, D.A. (2013)  
Motion-sensitive responses in visual area V4 in the absence of primary visual cortex.  
*J. Neurosci.* 33(48):18740-18745  
PMCID: PMC3841445
- Maier, A.** (2013)  
Neuroscience: The cortical layering of visual processing.  
*Curr. Biol.* 23(21):R959-961
- Cox, M.A., Schmid, M.C., Peters, A.J., Saunders, R.C., Leopold, D.A. & **Maier, A.** (2013)  
Receptive field focus of visual area V4 neurons determines responses to illusory surfaces.  
*Proc Natl Acad Sci U S A* 110(42):17095-17100  
PMCID: PMC3801031
- Spaak, E., Bonnefond, M., **Maier, A.**, Leopold, D.A. & Jensen, O. (2012)  
Layer-specific entrainment of gamma-band neural activity by the alpha rhythm in monkey visual cortex  
*Curr. Biol.* 22(24):2312-2318  
PMCID: PMC3528834
- Maier, A.**, Panagiotaropoulos, T., Tsuchiya, N. & Keliris, G.A. (2012)  
Binocular rivalry: a gateway to studying consciousness.  
*Front. Hum. Neurosci.* 6:263  
PMCID: PMC3457016
- Leopold, D.A. & **Maier, A.** (2011)  
Ongoing physiological processes in the cerebral cortex.  
*Neuroimage* 62(4):2190-200

**Maier, A.**, Aura, C. & Leopold, D.A. (2011)  
Infragranular origin of induced LFP responses in macaque primary visual cortex.  
*J. Neurosci.* 31(6):1971-1980.  
PMCID: PMC3075009

**Maier, A.**, Adams, G.K., Aura, C. & Leopold, D.A. (2010)  
Distinct superficial and deep laminar domains of activity in the visual cortex during rest and stimulation.  
*Front. Syst. Neurosci.* 4:31  
PMCID: PMC2928665

Schölvinck, M.L., **Maier, A.**, Ye, F.Q., Duyn, J.H. & Leopold, D.A. (2010)  
Neural basis of global resting state fMRI activity.  
*Proc Natl Acad Sci U S A* 107(22):10238-43  
PMCID: PMC2890438  
[see also: COMMENT: Hyder, F. & Rothman, DL. (2010). *Proc. Natl. Acad. Sci. USA.* 107(24):10773]

Wang, Z., **Maier, A.**, Logothetis, N.K., Liang, H. (2009)  
Extraction of bistable-percept-related features from local field potential by integration of local regression and common spatial patterns.  
*IEEE Trans. Biomed. Eng.* 56(8):2095-2103

Wang, Z., **Maier, A.**, Logothetis, N.K., Liang, H. (2009)  
Relaxation based feature selection for single-trial decoding of bistable perception.  
*IEEE Trans. Biomed. Eng.* 56(1):101-110

**Maier, A.**, Wilke, M., Aura, C., Zhu, C., Ye, F.Q. & Leopold, D.A. (2008)  
Divergence of fMRI and neural signals in V1 during perceptual suppression in the awake monkey.  
*Nat. Neurosci.* 11(10):1193-1200  
PMCID: PMC2754054  
[see also: DISPATCH: Blake, R. & Braun, J. (2009). *Curr. Biol.*, 19(10):R30-32]

Wang, Z., **Maier, A.**, Logothetis, N.K. & Liang, H. (2008)  
Single-trial classification of bistable perception by integrating empirical mode decomposition, clustering and support vector machine.  
*EURASIP Journal on Advances in Signal Processing* 2008:592742

Wang, Z., **Maier, A.**, Logothetis, N.K. & Liang, H. (2008)  
Single-trial decoding of bistable perception based on sparse nonnegative tensor decomposition.  
*Journal of Computational Intelligence and Neuroscience* 2008:642387

**Maier A.**, Logothetis, N.K. & Leopold, D.A. (2007)  
Context-dependent perceptual modulation of single neurons in primate visual cortex.  
*Proc Natl Acad Sci U S A* 104(13):5620-5625

Wang, Z., **Maier, A.**, Logothetis, N.K., Leopold, D.A., Liang, H., (2007)  
Single-trial evoked potential estimation using wavelets.  
*Computers in Biology and Medicine.* 37(4):463-473

Leopold, D.A. & **Maier, A.** (2006)  
Neuroimaging: Perception at the brain's core.  
*Curr. Biol.* 16(3):R95-8

Wang, Z., **Maier, A.**, Leopold, D.A., Liang, H. (2006)  
Relaxation based multichannel signal combination (RELAX-MUSIC) for perceptual decisions using the area under the ROC Curve.  
*IEEE Transaction on Biomedical Engineering* 5(12):2615-2618

**Maier, A.**, Logothetis, N.K. & Leopold, D.A. (2005)  
Global competition dictates local suppression in pattern rivalry.

*JOV* 5(9):668-677

**Maier, A.**, Wilke, M., Logothetis, N.K. & Leopold, D.A. (2003)  
Perception of temporally interleaved ambiguous patterns.  
*Curr. Biol.* 13:1076-1085  
[see also: HIGHLIGHT: Jones, R. (2003). *Nat. Rev. Neurosci.* 4, 612]

Leopold, D.A., **Maier, A.** & Logothetis, N.K. (2003)  
Measuring subjective visual perception in the nonhuman primate.  
*J. Consc. Stud.* 10(9-10): 115-130

Leopold, D.A., Wilke, M., **Maier, A.** & Logothetis, N.K. (2002)  
Stable perception of visually ambiguous patterns.  
*Nat. Neurosci.* 5(6): 605-609

Nikol, S., **Maier, A.**, Krausz, E., Hoefling, B., Huehns, T.Y. (1998)  
Current biotechnological approaches to the prevention of restenosis.  
*BioDrugs* 9(5): 376-388

### **Books and Book Chapters:**

Schmid, M.C. & **Maier, A.**: Blind-Sight (2017)  
Schmid, M.C. & **Maier, A.**: Lateral Geniculate Nucleus (2017)  
In: Shackelford, T.K. & Weekes-Shackelford, V.A. (eds.)  
Encyclopedia of Evolutionary Psychological Science  
Springer [*in press*]

**Maier, A.**, Schall, J., Woodman, G. (2017)  
Neural Recordings at Multiple Scales (Chapter 17)  
In: Wagenmakers, E.J. (ed.)  
Stevens Handbook of Psychology and Cognitive Neuroscience: Methodology  
Wiley [*in press*]

Shmuel A. & **Maier A.** (2015)  
Locally Measured Neuronal Correlates of Functional MRI Signals  
In: Uludag, K., Ugurbil, K. & Berliner, L.J. (eds.)  
fMRI: From Nuclear Spins to Brain Function  
Biological Magnetic Resonance, Vol. 30.  
Springer Science and Business Media, New York, New York, USA. ISBN: 978-1-4899-7590-4

**Maier, A.** (2012)  
Introduction to Neuropricing  
In: Mueller, K.-M.  
Neuropricing  
Haufe. ISBN: 978-3-648-03025-7

**Maier, A.**, Panagiotaropoulos, T., Tsuchiya, N. & Keliris, G.A. (eds.) (2012)  
Binocular rivalry: a gateway to studying consciousness.  
Frontiers Research Topic Ebook. ISBN: 978-2-88919-069-0

**Maier, A.** & Leopold, D.A. (2009)  
Binocular Rivalry.  
In: Wilken, P., Bayne, T., Cleeremans, A. (eds.)  
Oxford Companion to Consciousness. Oxford, UK,  
Oxford University Press. ISBN: 978-0-19-856951-0

**Maier, A.** & Leopold, D.A. (2009)  
Binocular Rivalry  
In: Binder, M.D., Hirokawa, N., Windhorst, U., Hirsch, M.C. (eds.)  
Encyclopedia of Neuroscience.  
Springer. ISBN: 978-3-540-29678-2

**Maier, A.** (2006)

Schlechte Nachrichten für Gedankenleser.

*Bild der Wissenschaft* 11/2006

Leopold, D.A., **Maier, A.**, Wilke, M. & Logothetis, N.K. (2004)

Binocular rivalry and the illusion of monocular vision.

In: D. Alais & R. Blake (eds.), *Binocular rivalry and perceptual ambiguity*, Cambridge, MA:

MIT Press. ISBN: 978-0-262-01212-6

**Professional Affiliations:**

2002-present: Society for Neuroscience

2004- present: Vision Science Society

2013- present: Scientific Advisory Board, The Neuromarketing Labs Inc.

2016-present: Faculty for Undergraduate Neuroscience

**Invited Talks, Seminars and Symposia:**

05/19-2017 **8th International Multisensory Research Forum (IMRF)**, Nashville, TN  
11/14/2016 **SfN (46<sup>th</sup> Annual Meeting)**, *Symposium Speaker*, San Diego, CA, USA  
11/5/2016 **4<sup>th</sup> Arab-American Frontiers of Science symposium**, Abu Dhabi (*declined*)  
10/14/2016 **17<sup>th</sup> Chinese-American Kavli Frontiers of Science Symposium**, Irvine, CA, USA  
07/29/2016 **Gordon Research Conference**, *Symposium Speaker*, Newry, ME  
23/02/2015 **2<sup>nd</sup> Israeli-American Kavli Frontiers of Science Symposium**, Jerusalem, Israel  
11/15/2014 **SfN (44<sup>th</sup> Annual Meeting)**, *Minisymposium Speaker*, Washington. D.C., USA  
10/10/2014 **University of Goettingen**, Goettingen, Germany  
05/14/2014 **Society for Neuroscience (SfN)**, Local Chapter, Middle Tennessee, USA  
03/24/2014 **German Primate Center (DPZ)**, Goettingen, Germany  
03/10/2014 **Belmont University**, Nashville, TN, USA  
11/12/2013 **SfN (43<sup>rd</sup> Annual Meeting)**, *Nanosymposium Chair*, San Diego, CA, USA  
10/13/2012 **SfN (42<sup>nd</sup> Annual Meeting)**, *Minisymposium Co-Chair*, New Orleans, LA, USA  
03/14/2012 **University of Memphis**, Memphis, TN, USA  
06/20/2011 **Johns Hopkins University**, Baltimore, MD, USA  
04/05/2011 **Harvard University**, Boston, MA, USA  
04/04/2011 **Mind/Brain/Behavior Interfaculty Initiative (MBB)**, Harvard University, Boston, MA  
03/03/2011 **University of Washington**, Seattle, WA, USA  
02/28/2011 **Cosyne (11<sup>th</sup> Annual Meeting)**, *Workshop Speaker*, Salt Lake City, UT  
01/31/2011 **Vanderbilt University**, Nashville, TN, USA  
12/08/2010 **Oxford University**, Oxford, UK  
07/16/2010 **Harvard University**, Boston, MA, USA  
01/08/2010 **Medical Research Council, Cognition and Brain Sciences Unit**, Cambridge, UK  
06/24/2010 **ASSC (14<sup>th</sup> Annual Meeting)**, *Symposium Co-chair*, Toronto, Canada  
05/07/2010 **VSS (10<sup>th</sup> Annual Meeting)**, *Symposium Speaker*, Naples, FL, USA  
08/13/2009 **Tamagawa University**, Tokyo, Japan  
08/08/2009 **ECVP (32<sup>nd</sup> Annual Meeting)**, *Symposium Speaker*, Regensburg, Germany  
08/03/2009 **Okinawa Institute of Science and Technology**, Okinawa, Japan  
07/01/2009 **Donders Institute for Brain, Cognition and Behaviour**, Nijmegen, The Netherlands  
02/27/2009 **Newcastle University**, Newcastle upon Tyne, UK  
09/11/2008 **Japan Neuroscience Society (31st Meeting)**, *Symposium Speaker*, Tokyo, Japan  
04/09/2007 **Princeton University**, USA  
02/23/2007 **Yale University**, CT, USA  
04/11/2006 **University of Texas**, Houston, TX, USA  
06/24/2005 **ASSC (9<sup>th</sup> Annual meeting)**, *Workshop Speaker*, Pasadena, CA

**Academic Service:**

Vanderbilt Neuroscience Steering Committee

College of Arts and Science Curriculum Committee

Department of Psychology Colloquium Committee

Department of Psychology Strategic Plan Committee

**Academic Teaching:**

Recurring: Undergraduate Course: *Perception*  
(since 2011) Guest Lectures: *Higher-order visual processes*  
*Neuronal Correlates of Consciousness*  
*V1 receptive fields*  
*Extra-striate areas: MT*  
*Extra-striate areas: V4*  
Graduate Seminar: *The Neuroscience of Consciousness/The Resting Brain*

**Ad Hoc Reviews for Research Journals:**

*Science, Nature Neuroscience, Neuron, PNAS, Journal of Neuroscience, Current Biology, Trends in Cognitive Sciences, Annals of the New York Academy of Sciences, Neuroimage, Human Brain Mapping, Cerebral Cortex, Journal of Cognitive Neuroscience, Journal of Vision, Perception, Journal of Neurophysiology, Biological Cybernetics, Psychophysiology, Attention, Perception & Psychophysics, Journal of Comparative Neurology, Journal of Cerebral Blood Flow & Metabolism, Neuroscience Letters, Current Eye Research*

**Ad Hoc Reviews for Funding Agencies:**

*National Institutes of Health (NIH), National Science Foundation (NSF), The Human Brain Project (HBP), The John D. and Catherine T. MacArthur Foundation, The Wellcome Trust, The Royal Society, Netherlands Organization for Scientific Research (NWO), L'Agence Nationale de la Recherche (ANR), Economic & Social Research Council (ESRC), Biotechnology and Biological Sciences Research Council (BBSRC), Deutsche Forschungsgemeinschaft (DFG)*

**Editor:**

2017-present: *Consciousness and Cognition*  
2015-present: *Frontiers in Integrative Neuroscience*  
2011-current: *Frontiers in Human Neuroscience* (Associate)  
2010-current: *Frontiers in Perception Science*  
2010-current: *Frontiers in Consciousness Research*

**Funding/Support:**

2017: NEI R01 (EY027402-01)  
2016: Competitive Renewal, Career Starter Grant, Knights Templar Eye Foundation  
2015: Career Starter Grant, Knights Templar Eye Foundation  
2013: Tom Slick Research Award, Mind Science Foundation  
2013-2015: Fellowship, Alfred P. Sloan Foundation  
2013-2016: Research Grant, Whitehall Foundation  
2012-13: Vanderbilt Discovery Grant  
2012-: NEI P30-EY-08126 (Core Grant)  
2012-: Start-Up Grant, College of Arts and Science, Vanderbilt University  
Center for Integrative & Cognitive Neuroscience, Vanderbilt University  
Vanderbilt Vision Research Center  
2009-11: NIMH Research Fellowship  
2004-09: NIH Visiting Fellowship  
2001-04: Max Planck Society Graduate Student Fellowship

**Conference Contributions (in chronological order):**

Westerberg J.A., Cox, M.A., Dougherty, K. & Maier, A. (2017) Pre- versus Post-Stimulus Comparison of Correlated Spiking Variability across V1 Laminae. VSS

Dougherty, K., Cox, M.A., Westerberg J.A. & Maier, A. (2017) Interocular interactions in macaque LGN. VSS

Westerberg J.A., Cox, M.A., Dougherty, K. & Maier, A. (2017) Layer-specific differences between spontaneous and visually evoked spiking correlations in V1. Cosyne

Maier, A. (2016) Parallel processing of surfaces and borders in early visual cortex. SfN (*symposium talk*)

Dougherty, K., Cox, M.A. & Maier, A. (2016) Interocular gain control in primate LGN. SfN

Cox, M.A., Dougherty, K., Maier, A. (2016) Interocular suppression across the layers of V1. SfN

Dougherty, K., Cox, M.A. & Maier, A. (2016) Binocular modulation of LGN responses in the primate. GRC

Cox, M.A., Dougherty, K., Maier, A. (2016) Interocular suppression in the input layers of V1. GRC

Dougherty, K., Cox, M.A., Leopold, D.A. Maier, A. (2015) Visual spiking responses in V1 couple to alpha fluctuations in deep layers. VSS [2015 VSS Student Travel Award]

Maier, A. (2014) Cross-frequency coupling in the cortical columnar microcircuit. [Symposium: Multimodal Investigation of Large-Scale Brain Dynamics: Combining fMRI and Intracranial EEG.] SfN

Ninomiya, T., Dougherty, K., Godlove, D.C., Schall, J.D. & Maier, A. (2014) Microcircuitry of agranular frontal and granular occipital cortex: Testing the generality of the canonical cortical microcircuit with cross-frequency phase-amplitude coupling during resting-state. SfN

Moore, B., Cox, M.A., Dougherty, K., Young, M.S. & Maier, A. (2014) Resting state correlations in visual cortex reflect fluctuations of cortical arousal. SfN

Dougherty, K., Cox, M.A., Leopold, D.A. & Maier, A. (2014) Spiking responses in primary visual cortex are coupled to the alpha phase of infragranular LFP. SfN [2014 FST Student Travel Award]

Cox, M.A., Leopold, D.A. & Maier, A. (2014) Sensory stimulation and attentional allocation evoke opposing patterns of columnar activation in primary visual cortex. SfN

Schmiedt, J.T., Maier, A., Saunders, R.C., Leopold, D.A. & Schmid, M.C. (2014) Low-frequency oscillations in extrastriate cortex: contributions of V1 and pulvinar. SfN

Kienitz, R., Cox, M.A., Schmiedt, J.T., Saunders, R.C., Leopold, D.A., Maier, A., Schmid, M.C. (2014) Neural rhythms during perceptual grouping in visual area V4 and their dependence on area V1 input. SfN

Shapcott, K., Schmiedt, J.T., Maier, A., Saunders, R.C., Leopold, D.A. & Schmid, M.C. (2014) Noise correlations in visual area V4 of the rhesus macaque after V1 lesion. SfN

Stanley, J., Maier, A., & Carter, O. (2014) The Role of Monocular Dominance in Rivalry Onset Bias. ASSC 18

Cox, M.A., Schmid, M.C., Peters, A., Saunders, R., Leopold, D.A. & Maier, A. (2014) Unexpected spatial sensitivity of neuronal response to illusory figures in area V4. VSS

Stanley, J., Forte, J., Maier, A. & Carter, O. (2014) The role of monocular dominance in rivalry onset bias. VSS

Maier, A. (2014) Anisotropy of neural coherence in primate visual cortex. German Primate Neurobiology Conference.

Shapcott, K.A., Schmiedt, J.T., Maier, A., Leopold, D.A. & Schmid, M. (2014) Neuronal Correlations in V1 after V4 injury. German Primate Neurobiology Conference.

Kienitz, R., Cox, M.A., Schmiedt, J.T., Saunders, R.C., Leopold, D.A., Maier, A. & Schmid, M. (2014) Perceptual grouping and theta oscillations in visual area V4. German Primate Neurobiology Conference.

Cox, M.A., Moore, B. Dougherty, K., Young, M.S. & Maier, A. (2013) LFP coherence as a function of laminar depth and lateral distance in macaque visual cortex. SfN

Dougherty, K., Cox, M.A., Leopold, D.A. & Maier, A. (2013) Visually evoked cross-frequency coupling between deep and superficial layers of macaque V1. SfN

Moore, B., Cox, M.A., Dougherty, K. Young, M.S. & Maier, A. (2013) Laminar profile of state-dependent visually evoked responses in primate visual cortex. SfN

Schmid, M. Schmiedt, J., Meyer, Saunders, R., Peters, A., Maier, A. & Leopold, D.A. (2013) V1-independent signal processing by V4 neurons. SfN

- Ninomiya, T., Godlove, D.C., Dougherty, K. & Maier, A. & Schall, J.D. (2013) Laminar cross-frequency coupling in agranular frontal cortex. SfN
- Guderian, S., Averbach, B., Maier, A., Saunders, R.C. & Mishkin, M. (2013) Laminar profile of recognition memory processes in the perirhinal cortex of the rhesus monkey. SfN
- Khandaker, H., Lowe, K., Tauhidul, L., Cox, M.A. & Maier, A. (2013) Contour Adaptation Does Not Survive Prolonged Absence of Visual Stimulation. 3rd Annual NIH ENDURE Meeting
- Schmid, M., Schmiedt, J., Maier, A., Saunders, R., & Leopold, D.A. (2013) V1-independent signal processing by area V4 neurons. Bernstein conference, Tuebingen.
- Schmiedt, J.T., Peters, A.J., Saunders, R.C., Maier, A., Leopold, D.A., Schmid, M.C. (2013) Blindsight: insights from neuronal responses in macaque V4 after V1 injury. ECVP
- Chen, L.M., Maier, A., Mishra, A., Wang, F., Colvin, D.C., Newton, A.T., Young, M., Gore, J.C., Schall, J.D. (2013) Data-driven Parcellation of Resting State Functional Connectivity Networks of the Frontal Lobe in New World and Old World Primates. ISMRM
- Maier, A. (2012) The cortical microcircuitry of conscious perception and selective attention. SfN [Symposium: The Neural Basis of Consciousness-Recent Advances and Breakthroughs]
- Ghose, D., Maier, A., Barnett, Z.P. & Wallace, M.T. (2012) Superficial layers of the superior colliculus: purely visual or multisensory? SfN
- Godlove, D.C., Maier, A., Woodman, G.F. & Schall, J.D. (2012) Laminar microcircuitry supporting error and reward processing in medial frontal cortex. SfN
- Spaak, E., Bonnefond, M., Maier, A., Leopold, D.A. & Jensen, O. (2012) Layer-specific entrainment of gamma-band neural activity by the alpha rhythm in the monkey visual cortex. SfN
- Maier, A., Chen, L., Mishra, A., Wang, F., Colvin, D.C., Newton, A.T., Young, M., Gore, J.C. & Schall, J.D. (2012) Resting state functional connectivity of the frontal and parietal lobe in new world and old world primates. SfN
- Schmid, M., Peters, A., Schmiedt, J., Saunders, R., Maier, A. & Leopold, D.A. (2012) Organization of neural responses in macaque area V4 without input from V1. SfN
- Spaak, E., Bonnefond, M., Maier, A., Leopold, D.A. & Jensen, O. (2012) Gamma power in superficial layers is coupled to the phase of alpha oscillation in deeper layers in monkey visual cortex. BIOMAG
- Jensen, M. & Maier, A. (2012) Multiple Realizability within the Neuronal Correlates of Consciousness. ASSC
- Cox, M.A., Schmid, M.C., Peters, A., Saunders, R., Leopold, D.A. & Maier, A., (2012) Neuronal representation of subjective shapes in primate area V4. VSS [2012 VSS student travel award]
- Maier, A., Cox, M.A., Reavis, E.A., Adams, G.K. & Leopold, D.A. (2011) Perceptual awareness and selective attention differentially modulate neuronal responses in primary visual cortex. SfN
- Cox, M.A., Schmid, M.C., Peters, A., Saunders, R., Leopold, D.A. & Maier, A., (2011) Single neuron and LFP responses to subjective shapes in area V4. SfN [2011 FST Student Travel Award]
- Spaak, E., Bonnefond, M., Maier, A., Leopold, D.A. & Jensen, O. (2011) Cross-Laminar Alpha/Gamma Interactions in Monkey V1. Champalimaud neuroscience symposium
- Cox, M.A., Maier, A., Schmid, M.C., Peters, A., Smith, K., Saunders, R., Mitz, A. & Leopold, D.A. (2011) Neural Correlates of Illusory Shape Perception in Primate Visual Cortex. APS



Maier, A. (2011) From neurons to networks - the search for the neural correlate of consciousness in primate visual cortex. [Symposium: Computational and Theoretical Approaches to the Problem of Consciousness] Cosyne

Maier, A. (2010) Activity in the primary visual cortex related to visual awareness. [Symposium: Neurophysiological approaches within the scientific study of consciousness] ASSC

Maier, A. (2010) Selective attention and perceptual suppression independently modulate contrast change detection [Symposium: Dissociations between top-down attention and awareness] VSS

Maier, A., Reavis, E., Adams, G., Leopold, D.A. (2009) Selective attention and perceptual suppression independently modulate contrast change detection. SFN

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