

Curriculum Vitae

Alexander V. Maier, Ph.D.

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Positions:

2017-present: **Assistant Professor**, Department of Ophthalmology and Visual Sciences, Vanderbilt University
2011-present: **Assistant Professor**, Department of Psychology, 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*)

Funding/Support:

2017-2022: 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-: 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

Research Publications (36 total; h-factor = 18; citations >2000):

Dougherty, K., Cox, M.A., Westerberg, J.A., Zinke, W. & **Maier, A.** (2018)
Binocular modulation of monocular V1 neurons.
[*in prep.*]

Poltoratski, S., **Maier, A.**, Newton, A. & Tong, F. (2018)
Cortical feedback mediates figure-ground modulation in the human lateral geniculate nucleus.
Nat. Neurosci. [*submitted*]

Cox, M.A., Dougherty, K., Westerberg, J.A., Schall, M.S. & **Maier, A.** (2018)
Binocular Integration manifests as a transient spiking increase followed by selective suppression in primary visual cortex.
[*under review*]

Westerberg, J.A., Cox, M.A., Dougherty, K. & **Maier, A.** (2018)
Repeated stimulation enhances V1 encoding efficiency.
[*under review*]

Kienitz, R., **Maier, A.**, Cox, M.A., Saunders, R.C., Schmiedt, J.T., Leopold, D.A., Schmid, M.C. (2018)
Rhythmic perception-related spiking of V4 neurons depends on input from primary visual cortex.
J. Neurosci. [*in revision*]

Dougherty, K., Schmid, M. & **Maier, A.** (2018)
Binocular modulation in the lateral geniculate nucleus
J. Comp. Anat. [*in revision*]

Noel, J.P., David Simon, D., Thelen, A., **Maier, A.**, Blake, R. & Wallace, M.T. (2018)
Probing Electrophysiological Indices of Perceptual Awareness Across Unisensory and Multisensory Modalities
J. Cogn. Neurosci. [*in press*]

Cox, M.A., Dougherty, K., Westerberg, J.A., Moore, B.S., Adams, G.K., Reavis, E.A., Leopold, D.A. & **Maier, A.** (2017)
Spiking suppression precedes cued attentional enhancement of neural responses in primary visual cortex.
Cerebral Cortex. doi: 10.1093/cercor/bhx305. [Epub ahead of print]

Dougherty, K., Cox, M.A., Ninomiya, T., Leopold, D.A. & **Maier, A.** (2017)
Ongoing alpha activity in V1 regulates visually driven spiking responses.
Cereb. Cortex 27(2):1113-1124 PMID:26656725

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/srep3488

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

Cox, M.A. & **Maier, A.** (2015)
Filling-in the details of spatial interpolation: New evidence for parallel processing in mid-level vision.
Neuroscience of Consciousness. 1-7

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
PMCID: PMC3288739

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:

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:

06/18/2018 **International Society for Magnetic Resonance in Medicine, *Symposium Speaker***, Paris, France
02/17/2018 **Gordon Research Seminar, *Workshop Leader***, Lucca, Italy
10.02/2017 **Southeastern Vision Conference**, Nashville, TN
05/19/2017 **Workshop, 8th International Multisensory Research Forum (IMRF)**, Nashville, TN
11/14/2016 **SfN (46th Annual Meeting), *Symposium Speaker***, San Diego, CA, USA
11/5/2016 **4th Arab-American Frontiers of Science symposium**, Abu Dhabi (*declined*)
10/14/2016 **17th Chinese-American Kavli Frontiers of Science Symposium**, Irvine, CA, USA
07/29/2016 **Gordon Research Conference, *Symposium Speaker***, Newry, ME
23/02/2015 **2nd Israeli-American Kavli Frontiers of Science Symposium**, Jerusalem, Israel
11/15/2014 **SfN (44th 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 (43rd Annual Meeting), *Nanosymposium Chair***, San Diego, CA, USA
10/13/2012 **SfN (42nd 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 (11th 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 (14th Annual Meeting)**, *Symposium Co-chair*, Toronto, Canada
 05/07/2010 **VSS (10th Annual Meeting)**, *Symposium Speaker*, Naples, FL, USA
 08/13/2009 **Tamagawa University**, Tokyo, Japan
 08/08/2009 **ECVP (32nd 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 (9th Annual meeting)**, *Workshop Speaker*, Pasadena, CA

Academic Service:

2018-21: Society for Neuroscience Trainee Professional Development Awards Selection Committee
 2014: Randolph Blake award selection committee
 2014: Vanderbilt Department of Psychology Strategic Plan Committee
 2014: Vanderbilt College of Arts and Science Curriculum Committee
 2012-: Vanderbilt Neuroscience Steering Committee
 2011-: Vanderbilt Department of Psychology Colloquium 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*

Doctoral Students:

Michele A. Cox: 2011-2017 (now postdoc in Michele Rucci's lab at University of Rochester)
 Kacie Dougherty: 2012 – present
 Jacob A. Westerberg: 2016-present

Undergraduate Researchers, Minority Research Scholars and Honors Students:

2011: Anna Das
 2012: Davis Nguyen
 2012: Clayton Patrick
 2012: Kaleb Lowe (Honors with Distinction)
 2012: Rachel Chandler (Belmont)
 2013: Christopher Kooker
 2013: Christopher Xin
 2013: Matthew Cherches
 2013: Taylor Peabody
 2013: Hameda Khandekar (NIH BP-Endure Program)
 2014: Powell Newbern (Summer Intern)
 2015: Liniya Tauhidul (Summer Intern)

Reviewer for Research Journals:

Science, Nature Neuroscience, Neuron, PNAS, Journal of Neuroscience, Current Biology, PLOS Biology, Trends in Cognitive Sciences, Annals of the New York Academy of Sciences, Neuroimage, Neuropsychologia, 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

Reviewer for Funding Agencies/Study Sections:

National Institutes of Health (NIH) SPC Study Section & Brain Project Study Section, 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)

Editorial Boards:

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*

Media Coverage (selected):

NPR "Academic Minute": Mind's Eye Blink – 01/22/18

NPR "Science Friday": Trapping a proton, the speed of a muscle, and switching attention – 12/01/17

Gehirn & Geist (German edition of *Scientific American: Mind*): Mit den Augen eines Vogels – 04/2016

Conference Contributions (in chronological order):

Dougherty, K., Cox, M.A., Westerberg, J.A., Maier, A. (2018) Laminar profile of V1 ocular dominance in the awake behaving primate. GRC

Westerberg J.A., Cox, M.A., Dougherty, K. & Maier, A. (2017) Repetitive visual stimulation suppresses spiking responses across V1 laminae. SfN

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) Pre- versus Post-Stimulus Comparison of Correlated Spiking Variability across V1 Laminae. 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., Averbeck, 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. ECVF
- 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
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