

## Curriculum Vitae

Leah A. Krubitzer, Ph.D.

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University of California, Davis  
One Shields Avenue  
134 Young Hall  
Davis, CA 95616

### *Personal*

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Date of Birth: March 30, 1961

Place of Birth: Wilkes-Barre, Pennsylvania USA

### **Education**

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- 1983**            **B.S.**  
Speech Pathology, High Honors  
Pennsylvania State University, University Park, PA
- 1984 – 1989**    **Ph.D.**  
Psychology (Neuroscience), Thesis Adviser: Dr. Jon H. Kaas  
Vanderbilt University, Nashville, TN

### **Professional Appointments and Experience**

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- 1989 – 1990**    **Postdoctoral Fellow** with Dr. Jon H Kaas  
Vanderbilt University, Nashville, TN, USA
- 1990 - 1992**    **ARC Research Associate.** Postdoctoral advisor: Dr. Mike Calford.  
Vision, Touch and Hearing Research Centre, Department of Physiology and  
Pharmacology  
University of Queensland, Brisbane, Australia
- 1993 – 1995**    **ARC Research Fellow**  
Vision, Touch, and Hearing Research Centre, Department of Physiology and  
Pharmacology  
University of Queensland, Brisbane, Australia
- 1995 – 1998**    **Assistant Professor**  
Department of Psychology, and Center for Neuroscience  
UC Davis, Davis, CA, USA
- 1999 – 2001**    **Associate Professor 3**  
Department of Psychology, and Center for Neuroscience

- UC Davis, Davis, CA, USA
- 2001 – 2003**     **Professor1**  
 Department of Psychology, and Center for Neuroscience  
 UC Davis, Davis, CA, USA
- 2003 – 2006**     **Professor 2**  
 Department of Psychology, and Center for Neuroscience  
 UC Davis, Davis, CA, USA
- 2006 – 2008**     **Professor3**  
 Department of Psychology, and Center for Neuroscience  
 UC Davis, Davis, CA, USA
- 2008 – 2011**     **Professor 5**  
 Department of Psychology, and Center for Neuroscience  
 UC Davis, Davis, CA, USA
- 2011 – 2013**     **Professor 6**  
 Department of Psychology, and Center for Neuroscience  
 UC Davis, Davis, CA, USA
- 2014 – 2016**     **Professor 7**  
 Department of Psychology, and Center for Neuroscience  
 UC Davis, Davis, CA, USA
- 2017 -**             **Professor 8.5**  
 Department of Psychology and Center for Neuroscience  
 UC Davis, Davis, CA USA

## **Honors and Awards**

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- 1987**             Kreig Cortical Scholar Award, Cajal Club
- 1996**             Herrick Award, American Association of Anatomists
- 1998**             MacArthur Award, MacArthur Foundation
- 1999**             Special Lecture for the Society for Neuroscience meeting
- 2002 – 2003**     The James McKeen Cattell Sabbatical Fellowship
- 2002 – 2003**     Bloedel Visiting Scientist Fellowship, University of Washington
- 2007**             Center for Academic Research and Training in Anthropogeny (inducted member)
- 2011**             Distinguished Alumni Award, Vanderbilt University
- 2012**             Dean's Innovation Award, Division of Social Sciences, University of California, Davis
- 2014**             International Neuropsychological Society (inducted member)

## Grant Support

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- 1986** Travel Award for College on the Organization of the Brain, International Centre for Theoretical Physics, Trieste, Italy
- 1987 – 1989** Predoctoral Fellowship “Organization of neocortex in a primate.” NIMH. PI: Leah Krubitzer
- 1987** Travel Award for the IBRO Second World Congress of Neuroscience, Budapest, Hungary, Society for Neuroscience
- 1989** NIH Postdoctoral Fellowship "Developmental influences on retinogeniculate axon arbors." Massachusetts Institute of Technology, Cambridge, MA, USA (declined)
- 1993 - 1997** ARC Research Fellowship "A comparative study of the organization and connections of neocortex in Australian mammals." PI: Leah Krubitzer, R VTHRC ARF 9 94.
- 1994 -1995** ARC Small Grant "Thalamocortical relationships in the somatosensory system of mammals." PI: Leah Krubitzer, R VTHRC ARC 1261 94 B Small.
- 1994** University of Queensland Research Grant "The organization and connections of neocortex in mammals." PI: Leah Krubitzer, NSG-17 VTHRC-94.
- 1995** The Ciba Foundation Bursary Award Host for Zoltán Molnár. “Interaction between the developing thalamus and cerebral cortex: mechanisms involved in the specification of cortical areas.”
- 1997 – 2000** NIH RO1. “The somatosensory cortex and thalamus.” PI: Leah Krubitzer, 1 RO1 NS35103-01A1.
- 1997 – 2000** Whitehall Foundation “The role of the somatosensory system in intra- manual and bilateral coordination of the hands.” PI: Leah Krubitzer M97-20.
- 1998 – 2001** McDonnell-Pew Cognitive Neuroscience Program “Higher order somatosensory processing networks: A combined fMRI study in monkeys and humans.” PI: Leah Krubitzer.
- 2000 – 2004** NIH RO1 (NINDS) “The somatosensory cortex and thalamus.” PI: Leah Krubitzer 1 RO1 NS35103-05A1.
- 2000 – 2004** NIH 1 R21 MH066756-01. “The role of the somatosensory cortex in affective social behavior.” Co-PI.
- 2004 – 2008** McDonnell Foundation. “How does evolution build a complex brain?” PI: Leah Krubitzer.
- 2005 – 2010** R01 “The somatosensory cortex and thalamus.” PI: Leah Krubitzer.
- 2008 – 2011** NSF Genetic and Epigenetic contributions to the cortical phenotype
- 2010 – 2012** R21 (NINDS) “Can cortical plasticity and adaptive behavior be amplified by an enhanced visual environment? PI: Leah Krubitzer
- 2010 – 2012** R21 “Effects of Early Experience on Somatosensory Systems in Voles. Co-PI Leah

Krubitzer

- 2012 – 2014** R21 (NIBIB) “Development of a Microfluidic Thermal Regulator for Studies of Cortical Function
- 2010 – 2015** R01 (NINDS) “The somatosensory cortex and thalamus.” PI: Leah Krubitzer
- 2013 – 2017** R01 (NEI) Can Cortical Plasticity be Directed and Amplified Following Early Loss of Vision?
- 2014 – 2017** R03 (FIRCA) Effects of reversible deactivation of PPC in New World Cebus monkeys
- 2015 – 2016** Cal-BRAIN An integrated system to monitor, image and regulate neural activity.
- 2016 – 2021** R01 (NICHD) How does early sensory experience affect cortical connections and behavior?

### **Meetings and Conferences Organized**

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- 2001** Co-organizer for IIIrd Antonio Borsellino College on Neurophysics  
"Evolution of Intelligent Behavior"  
Trieste, Italy  
April 23 - May 4
- 2004** Co-organizer for IIIrd Antonio Borsellino College on Neurophysics  
"Sensory Coding - Spike Trains to Behavior"  
Trieste, Italy  
September 27, 2004 – October 8
- 2009** Co-Organizer. Summer Institute in Cognitive Neuroscience. Sage Institute  
Santa Barbara, California  
June 22 – July 3rd
- 2013** Co-Organizer. Summer Institute in Cognitive Neuroscience. Learning and Plasticity  
Lake Tahoe, California  
June 24 – 26
- 2014** Co-Organizer. Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology.  
Barcelona, Spain.  
September 1 – 14
- 2015** Co-Organizer. Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology.  
Barcelona, Spain.  
August 30 – Sept 14
- 2017** Co-Organizer. Workshop on Evo/Devo. At Living Machines Conference, Stanford  
University, Palo Alto, California  
July24- July 28

## **NIH Study Sections**

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Multimodal Integration Research Networks in Cognitive Neuroscience	June, 2002
IFCN-8	February, 2003 December, 2003
NIH, Human Brain Mapping	May, 2003 February, 2004 February, 2006
ZRG1-IFCN-E (01)	April, 2004
Director's Pioneer Award Special Study Section	2009
NIDA sponsored meeting: "Not Just a Matter of Gray and White: Exploring the Importance of Evolution, Genes and Experience on Brain Development" special council.	July, 2009
NIH; Mechanisms of Sensory, Perceptual and Cognitive Processes (SPC)	2013
ZRG1 F02B	June, 2014 October, 2014 March, 2016 June, 2017

## **NSF Research Panels**

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2013 Organization Program in Neural Systems  
Panel 2: Neuro EvoDevo

## **Editorial Board**

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Evolution of Nervous Systems, Volumes 1-4, (2003-2006)  
Elsevier Science, publisher

International Review in Neurobiology  
Elsevier Science, publisher

Journal of Comparative Neurology

Visual Neuroscience

Anatomical Record

Brain, Behavior and Evolution

## **Editor**

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The Evolution of Nervous systems in mammals, Volume IV: Mammals (2006)  
Elsevier Science, publisher

Section Editor: The Cognitive Neurosciences. Learning and Plasticity (2015)

The Evolution of Nervous systems in mammals, Volume III: Primates (2017)  
Elsevier Science, publisher  
Guest Editor: PNAS

## **Journal Referee 1990 - present**

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American Journal of Primatology  
Anatomical Records  
Brain, Behavior and Evolution  
Brain Research  
Cerebral Cortex  
Development  
European Journal of Neuroscience  
Experimental Brain Research  
Evolution  
Frontiers in Neuroanatomy  
Frontiers in Neuroscience  
Human Brain Mapping  
Journal of Comparative Neurology  
Journal of Neurophysiology  
Journal of Neuroscience  
Journal of Visual Neuroscience  
Nature Neuroscience  
Nature  
Neuroimage  
Neuron  
Neuroscience  
PNAS  
PLoS  
Science  
Somatosensory and Motor Research

## **Invited Conferences, Symposia, Colloquia and Seminars**

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**1984** Society for Neuroscience (Middle Tennessee Chapter).  
**1985** J.B. Johnston Club. Dallas, TX, USA.  
**1985** Vanderbilt Visionaries. Nashville, TN, USA.  
**1987** Vanderbilt Visionaries. Nashville, TN, USA.  
**1990** University of Queensland. Brisbane, Australia.

- 1991** J. B. Johnston Club. New Orleans, LA, USA.
- 1991** Department of Psychology, Vanderbilt University. Nashville, TN, USA.
- 1992** University of California. Irvine, CA, USA.
- 1993** University of Sydney. Sydney, Australia.
- 1993** INSERM. Lyon, France.
- 1994** European Winter Brain Conference. La Playne, France.
- 1994** Rapporteur for Dahlem Workshop on Flexibility and Constraint in Behavioral Systems. Berlin, Germany.
- 1994** Symposium on "Cortical Field Development and Evolution. European Winter Conference on Brain Research. La Playne, France.
- 1994** Symposium on Somesthesia and the Neurobiology of the Somatosensory Cortex. Stockholm, Sweden.
- 1994** The Ciba Foundation Symposium on "The Development of the Cerebral Cortex". London, England.
- 1995** Symposium on the Formation of Cortical Maps. Held in Honor of Hendrik Van der Loos. Amsterdam, Netherlands.
- 1995** Max Planck. Frankfurt, Germany.
- 1996** Cornell University, Department of Neurobiology. Ithaca, NY, USA.
- 1996** Department of Optometry, UC Berkeley. Berkeley, CA, USA.
- 1996** American Association of Anatomists, Herrick Award Lecture, Washington, D. C., USA.
- 1996** McDonnell, Summer Institute in Cognitive Neuroscience, Dartmouth College and School of Medicine. Hanover, NH, USA.
- 1996** Society for Neuroscience Special Interest Social: The Future of Research on the Somatosensory System. Washington D.C., USA.
- 1997** Polish Society for Neuroscience meeting, special lecture, Cortical Plasticity in Mammals. Lodz, Poland.
- 1997** Human Frontier Science Program Workshop, Evolutionary Perspectives on the Brain and Mind, Strasbourg, France.
- 1997** Department of Psychology, UC Berkeley. Berkeley, CA, USA.
- 1997** MIT. Boston, MA, USA.
- 1997** Nencki Institute. Warsaw, Poland.
- 1998** Center for Visual Science, University of Rochester. Rochester, NY, USA.
- 1998** Department of Neurobiology, School of Medicine, Harvard University. Boston, MA, USA.
- 1998** Department of Molecular and Cellular Biology, UC Berkeley. Berkeley, CA, USA.
- 1998** UC San Francisco. San Francisco, CA, USA.
- 1998** The Fifth International Congress of Neuroethology. Early brain damage and cortical reorganization: Implications for theories of brain evolution. La Jolla, CA, USA.
- 1999** Harvard Medical School, Program in Neuroscience. Student-run Spring Symposium on Evolutionary Neurobiology. Boston, MA, USA.
- 1999** Novartis Foundation Symposium, Evolutionary Developmental Biology of the Cerebral Cortex. London, England.
- 1999** Hebb Club, Berkeley, CA, USA.
- 2000** Helmholtz Club, UC Berkeley, Berkeley, CA, USA
- 2000** Department of Psychology, UC Berkeley. Berkeley, CA, USA.
- 2000** University of New York. Stony Brook, NY, USA.

- 2000 Third Berlin Workshop on Cortical Plasticity, Mechanisms of Reorganization. Berlin, Germany.
- 2000 Cajal Club mini symposium on Evolution of the Neocortex. San Diego, CA, USA.
- 2000 NIMH, Opportunities in Cognitive Neuroscience Workshop: The use of multiple techniques to examine the somatosensory system in human and non-human primates. Bethesda, MD, USA.
- 2000 The Jackson Laboratory Symposium, University of California, Davis. Davis, CA, USA.
- 2001 Summer Institute in Cognitive Neuroscience. Dartmouth, NH, USA.
- 2001 Cold Spring Harbor, Banbury Center, Cortical Maps. Laurel Hollow, NY, USA.
- 2001 MGH - Winter Conference on Brain Research Symposium on Cortical Map Plasticity. Boston, MA, USA.
- 2001 Jean Piaget Society Meeting. Berkeley, CA, USA.
- 2001 Symposium on the Evolution of the Brain. Kyoto, Japan.
- 2001 Princeton University. Princeton, NJ, USA.
- 2001 Bell Laboratories. Murray Hill, NJ, USA.
- 2001 Department of Psychology, UC Berkeley. Berkeley, CA, USA.
- 2001 University of Chicago. Chicago, IL, USA.
- 2001 University of Illinois. Chicago, IL, USA.
- 2002 Fourth Workshop on cortical plasticity: Multimodal plasticity in cerebral cortex in the developmentally blind. Schwetzingen, Germany.
- 2002 Attention and Performance. Erice, Italy.
- 2002 California Institute of Technology. Pasadena, CA, USA.
- 2002 MIT. Boston, MA, USA.
- 2002 Brandeis University, Boston, MA, USA.
- 2002 University of California, San Diego/The Salk Institute. San Diego, CA, USA.
- 2002 University of Washington. Seattle, WA, USA.
- 2003 The Keck Center, UC San Francisco. San Francisco, CA, USA.
- 2003 The Ernest Gallo Clinic and Research Center, UC San Francisco. San Francisco, CA, USA.
- 2003 Krieger Mind/Brain Institute, Johns Hopkins University. Baltimore, MD, USA.
- 2003 Department of Anthropology, UC San Diego. San Diego, CA, USA.
- 2003 Department of Cell Biology and Neuroscience, Montana State University. Bozeman, MT, USA.
- 2003 Department of Psychology, Stanford University. Palo Alto, CA, USA.
- 2003 23rd European Winter Conference on Brain Research. France
- 2003 International Brain Research Organization. Prague, Czech Republic.
- 2003 **Keynote Speaker** at the Annual Retreat of the Center for the Neural Basis of Cognition. Carnegie Mellon and University of Pittsburgh Neuroscience graduate group. Pittsburgh, PA, USA.
- 2003 **Keynote speaker**, Annual Retreat of Neuroscience graduate group. Tulane University, New Orleans, LA, USA.
- 2004 The McDonnell Foundation Conference. Palisades, New York, USA.
- 2004 Novartis Foundation Symposium 270: Percept, Decision, Action: Bridging the Gaps. Trieste, Italy.
- 2004 Smith-Kettlewell Eye Research Institute. San Francisco, CA, USA.
- 2005 Oxiopia seminar series, Department of Optometry, UC Berkeley. Berkeley, CA, USA.
- 2005 Darwin Day **Keynote Speaker**, Sacramento, CA, USA.



- 2005 American Association for the Advancement of Science. Symposium on Comparative Perspectives on Brain and Behavior. Washington D.C., USA.
- 2005 Experimental Biology Conference. San Diego, CA, USA.
- 2005 Summer Institute in Cognitive Neuroscience, Evolutionary plasticity in the mammalian neocortex. Dartmouth University, Hanover CT, USA.
- 2005 OSA meeting symposium: Evolution of the visual system, Tucson, AZ, USA.
- 2005 **Plenary Lecture.** European Brain and Behavior Society. Dublin, Ireland.
- 2005 National Academy of Sciences, 17th Annual Frontiers of Science Symposium. Design Principles in the Visual System, Chair. Irvine, CA, USA.
- 2006 ICAM: Grand Challenges in Neuroscience. Santa Fe, NM, USA.
- 2006 ICAM: Annual conference, Grand Challenges in Neuroscience. Santa Fe, NM, USA.
- 2006 University of Illinois. Champagne-Urbana, IL, USA.
- 2006 Mt. Sinai Medical School. New York, NY, USA.
- 2007 Department of Neurobiology, School of Medicine, Harvard University. Boston, MA, USA.
- 2007 The Allen Institute for Brain Science. Seattle, WA, USA.
- 2007 Department of Human Development and Department of Cognitive Neuroscience, UC San Diego. San Diego, CA, USA.
- 2007 Department of Psychology, Weber State University. Ogden, UT, USA.
- 2007 EEEEC. Paris, France.
- 2007 **Keynote Speaker,** Human Brain Mapping. Chicago, IL, USA.
- 2007 Project for Explaining the Origin of Humans (POH) Symposium. La Jolla, CA, USA.
- 2007 Society for Neuroscience, Special Lecture. San Diego, CA, USA.
- 2007 EEEEC, Paris, France
- 2007 Consciousness and the Brain in Context Workshop, UC Berkeley. Berkeley, CA, USA.
- 2008 International Neuropsychological Symposium, Evolution of the Human Brain and Human Cognition. Tenerife, Spain.
- 2008 Museum of Natural History, First Fridays lecture series. Los Angeles, CA, USA.
- 2008 Department of Neuroscience, Virginia Commonwealth University. Richmond, VA, USA.
- 2008 Department of Psychology, Johns Hopkins University. Baltimore, MD, USA.
- 2008 Department of Philosophy, University of California, Berkeley. Berkeley, CA, USA.
- 2008 Department of Psychology, University of Iowa. Iowa City, IA, USA.
- 2008 Department of Anatomy and Cell Biology, University of Melbourne. Melbourne, Australia.
- 2008 Queensland Brain Institute, University of Queensland. Brisbane, Australia.
- 2009 Columbia University. New York, NY, USA.
- 2009 University of California, Irvine. Irvine, CA, USA.
- 2010 **Plenary Lecture.** University of Washington. Roger Brown Loucks Lectureship. Seattle, WA, USA.
- 2010 Woods Hole. Neural systems and behavior course lecture. Woods Hole, MA, USA.
- 2010 Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2010 Vision Down Under, University of Queensland. Brisbane, Australia.
- 2010 Karger Symposium. San Diego, CA, USA.
- 2010 Vanderbilt University – graduate seminar course invited lecture. Nashville, TN, USA.
- 2011 Department of Psychology, UC Berkeley. Berkeley, CA, USA.
- 2011 Department of Psychology, Vanderbilt University, Nashville, TN, USA.
- 2011 Department of Neurobiology, Physiology, and Behavior, UC Davis. Davis, CA, USA.
- 2011 Center for Mind and Brain, UC Davis. Davis, CA, USA.

- 2011 University of Oregon, **Keynote Speaker**, Graduate Student Retreat. Eugene, OR, USA.
- 2011 The Allen Institute, Open Questions in Neuroscience. Seattle, WA, USA.
- 2012 National Academy of Sciences Sackler Symposium: In Light of Evolution. Irvine, CA USA.
- 2012 University of Texas, Center for Brain Health Symposium: Reprogramming the Brain to Health. Dallas, TX, USA
- 2012 New York Academy of Sciences: Play, Attention, and Learning. New York, NY, USA.
- 2012 McDonnell Summer Institute. Santa Barbara, CA, USA.
- 2012 Center for Complex Systems, University of Michigan. Ann Arbor, MI, USA.
- 2013 Department of Neurobiology, University of Chicago. Chicago, IL, USA.
- 2013 Yale University, Department of Neurobiology, New Haven CT, USA
- 2013 **Keynote Speaker**, Annual Baycrest Rotman Research Institute Neuroscience Conference. Toronto, Canada.
- 2013 **Keynote Speaker**, Annual Neuroscience Graduate Student Symposium. Lisbon, Portugal
- 2013 Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA, USA.
- 2013 Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2014 Maximilian Ludwig University, Department of Biomedical Engineering, Munich Germany
- 2014 Sheffield University, Department of Psychology, England
- 2014 Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2014 **Harley Hotchkiss Memorial Lecture**, University of Lethbridge, Alberta, Canada
- 2014 **Harley Hotchkiss Memorial Lecture**, University of Calgary, Alberta Canada
- 2014 Summit on Human Evolution, Allen Institute, Seattle, Washington USA
- 2015 Cortical Evolution, Toledo, Spain
- 2015 Thalamus and Thalamocortical interactions, Rio de Janeiro, Brazil
- 2015 Universitat Pompeu Fabra, Barcelona, Cognition, Brain and Technology. Barcelona, Spain.
- 2015 UC, Riverside, USA
- 2015 Washington State University, USA
- 2016 Duke University, Institute for Brain Sciences, USA
- 2016 George Washington University, Department of Anthropology, Washington DC, USA
- 2016 Oregon Health and Science University, Department of Neuroscience, Portland, Oregon, USA
- 2016 Max Plank Institute for Biological Cybernetics, University of Tübingen, Institute for Theoretic Physics, Tübingen, Germany
- 2016 Department of Psychology, Vanderbilt University, Nashville, TN, USA
- 2016 Graduate Student Seminar Series, University of Arizona, Tucson, AZ, USA
- 2016 Department of Psychology, Vanderbilt University, Nashville, TN, USA
- 2016 Leonardo Art Science Evenings; University of California, Berkeley, USA
- 2016 University of Lausanne, Brain Evolution Symposium, Lausanne, Switzerland
- 2016 Case Western Reserve, Department of Neuroscience, Cleveland, Ohio, USA
- 2017 Center for Visual Neuroscience Symposium, UC Davis, Davis, CA USA
- 2017 University of Chicago, Computational Neuroscience Seminar Series, Chicago, IL, USA
- 2017 Washington University; Philosophy, Neuroscience and Psychology lecture, St. Louis, MO USA
- 2017 Rochester University, **The Ann Notter Special Lecture**, Department of Neuroscience, Rochester, New York, USA
- 2017 International Neuropsychology Symposium, Sitia, Greece
- 2017 Living Machines Workshop, Stanford University, Palo Alto, CA USA

## **Public Presentations**

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- 2016** Science Café, Davis, CA USA
- 2016** LASER Berkeley, CA
- 2016** Brain Awareness Day, UC Davis

## PUBLICATIONS

### Research Papers

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1. Krubitzer LA, Sesma MA, and Kaas JH (1986) Microelectrode maps, myeloarchitecture, and cortical connections of three somatotopically organized representations of the body surface in the parietal cortex of squirrels. J Comp Neurol. 250:403-430. PMID: 3760247
2. Huerta MF, Krubitzer LA, and Kaas JH (1986) Frontal eye field as defined by intracortical microstimulation in squirrel monkeys, owl monkeys, and macaque monkeys: I. subcortical connections. J Comp Neurol. 253:415-439. PMID: 3793998
3. Huerta MF, Krubitzer LA, and Kaas JH (1987) Frontal eye fields as defined by intracortical microstimulation in squirrel monkeys, owl monkeys, and macaque monkeys II: Cortical connections. J Comp Neurol. 265:332-361. PMID: 2447132
4. Krubitzer LA and Kaas JH (1987) Thalamic connections of three representations of the body surface in somatosensory cortex of grey squirrels. J Comp Neurol. 265:549-580. PMID: 2448348
5. Luethke LE, Krubitzer LA, and Kaas JH (1988) Cortical connections of electrophysiologically and architectonically defined subdivisions of auditory cortex in squirrels. J Comp Neurol. 268:181-203. PMID: 3360984
6. Krubitzer LA and Kaas JH (1988) Responsiveness and somatotopic organization of anterior parietal field 3b and adjacent cortex in newborn and infant monkeys. Somatosens Mot Res. 6:179-205. PMID: 3242345
7. Krubitzer LA and Kaas JH (1989) Cortical integration of parallel pathways in the visual system of primates. Brain Res. 478:161-165. PMID: 2466529
8. Kaas JH, Krubitzer LA, and Johanson KL (1989) Cortical connections of areas 17 (V-I) and 18 (V-II) of squirrels. J Comp Neurol. 281:426-446. PMID: 2703555
9. Luethke LE, Krubitzer LA, and Kaas JH (1989) Connections of primary auditory cortex in the New World monkey, *Saguinus*. J Comp Neurol. 285:487-513. PMID: 2474584
10. Kaas JH, Krubitzer LA, Chino YM, Langston AL, Polley EH, and Blair N (1990) Reorganization of retinotopic cortical maps in adult mammals after lesions of the retina. Science. 248:229-231. PMID: 2326637
11. Krubitzer LA and Kaas JH (1990) The organization and connections of somatosensory cortex in marmosets. J Neurosci. 10:952-974. PMID: 2108231
12. Krubitzer LA and Kaas JH (1990) Cortical connections of MT in four species of primates: areal, modular, and retinotopic patterns. Vis Neurosci. 5:165-204. PMID: 2278944

13. Krubitzer L and Kaas J (1990) Convergence of processing channels in the extrastriate cortex of monkeys. Vis Neurosci. 5:609-613. PMID: 1707652
14. Krubitzer LA and Calford MB (1992) Five topographically organized fields in the somatosensory cortex of the flying fox: microelectrode maps, myeloarchitecture, and cortical modules. J Comp Neurol. 317:1-30. PMID: 1573055
15. Krubitzer LA and Kaas JH (1992) The somatosensory thalamus of monkeys: Cortical connections and a redefinition of nuclei in marmosets. J Comp Neurol. 319:123-140. PMID: 1375605
16. Kaas JH and Krubitzer LA (1992) Area 17 lesions deactivate area MT in owl monkeys. Vis Neurosci. 9:399-407. PMID: 1390397
17. Krubitzer LA, Calford MB, and Schmid LM (1993) Connections of somatosensory cortex in megachiropteran bats: The evolution of cortical fields in mammals. J Comp Neurol. 327:473-506. PMID: 8440777
18. Krubitzer LA and Kaas JH (1993) The dorsomedial visual area (DM) of owl monkeys: Connections, myeloarchitecture, and homologies with other primates. J Comp Neurol. 334:497-528. PMID: 8408763
19. Rosa MGP, Schmid LM, Krubitzer LA, and Pettigrew JD (1993) Retinotopic organization of the primary visual cortex of flying foxes (*Pteropus poliocephalus* and *Pteropus scapulatus*). J Comp Neurol. 335:55-72. PMID: 8408773
20. Krubitzer L, Manger P, Pettigrew JD, and Calford MB. (1995) The organization of neocortex in monotremes: In search of the prototypical plan. J Comp Neurol. 351:261-306. PMID: 7699113
21. Krubitzer L, Clarey J, Tweedale R, Elston G, and Calford M (1995) A redefinition of somatosensory areas in the lateral sulcus of macaque monkeys. J Neurosci. 15:3821-3839. PMID: 7751949
22. Krubitzer LA, Kunzle H, and Kaas JH (1997) The organization of sensory cortex in a Madagascan insectivore, the tenrec (*Echinops telfairi*). J Comp Neurol. 379:399-414. PMID: 9067832
23. Manger P, Sum M, Szymanski M, Ridgway SH, and Krubitzer L (1998) Modular subdivisions of dolphin anterior insular cortex: Does evolutionary history repeat itself? J Cogn Neurosci. 10:153-166. PMID: 9555104
24. Krubitzer L, Clarey JC, Tweedale R, and Calford MB (1998) Interhemispheric connections of somatosensory cortex in the flying fox. J Comp Neurol. 402:538-559. PMID: 9862325
25. Huffman KJ, Nelson J, Clarey J, and Krubitzer L (1999) Neocortical organization in four species of marsupials: Neural correlates of morphological specialization. J Comp Neurol. 403:5-32. PMID: 10075440
26. Rosa MGP, Krubitzer LA, Molnar Z, and Nelson JE (1999) Organization of visual cortex in the

northern quoll, *Dasyurus hallucautus*: Evidence for a homologue of the second visual area in marsupials. Eur J Neurosci. 11:907-915. PMID: 10103084

27. Disbrow E, Roberts T, Slutsky D, and Krubitzer L (1999) The use of fMRI for determining the topographic organization of cortical fields in human and nonhuman primates. Brain Res. 829:167-173. PMID: 10350543
28. Huffman KJ, Molnár Z, Van Dellen A, Kahn D, Blakemore C, and Krubitzer L (1999) Formation of cortical fields on a reduced cortical sheet. J Neurosci. 19:9939-9952. PMID: 10559402
29. Disbrow E, Krubitzer L, and Roberts T (2000) The somatotopic organization of the lateral sulcus areas in Homo Sapiens: Evidence for SII and PV. J Comp Neurol. 418:1-21. PMID: 10701752
30. Slutsky DA, Manger PR, and Krubitzer L (2000) Multiple somatosensory areas in the anterior parietal cortex of the California ground squirrel (*Spermophilus beecheyii*). J Comp Neurol. 416:521-539. PMID: 10660882
31. Disbrow EA, Slutsky DA, Roberts TP, and Krubitzer LA (2000) Functional MRI at 1.5 tesla: A comparison of the blood oxygenation level dependent signal and electrophysiology. Proc Natl Acad Sci U S A. 97:9718-9723. PMCID: PMC16931
32. Kahn DM, Huffman KJ, and Krubitzer L (2000) Organization and connections of V1 in *Monodelphis domestica*. J Comp Neurol. 428:337-354. PMID: 11064371
33. Disbrow E, Roberts T, Poeppel D, and Krubitzer L (2001) Evidence for interhemispheric processing of inputs from the hands in the human second somatosensory and parietal ventral areas. J Neurophysiol. 85:2236-2244. PMID: 11353038
34. Huffman KJ and Krubitzer L (2001) Thalamo-cortical connections of areas 3a and M1 in marmoset monkeys. J Comp Neurol. 435:291-310. PMID: 11406813
35. Huffman KJ and Krubitzer L (2001) Area 3a: Topographic organization and connections in marmoset monkeys. Cereb Cortex. 11:849-867. PMID: 11532890
36. Kahn DM and Krubitzer L (2002) Retinofugal projections in the short-tailed opossum (*Monodelphis domestica*). J Comp Neurol. 447:114-127. PMID: 11977115
37. Disbrow E, Litinas E, Recanzone GH, Slutsky D, and Krubitzer LA (2002) Thalamocortical connections of the parietal ventral area (PV) and the second somatosensory area (S2) in macaque monkeys. Thalamus Relat Syst. 1:289-302
38. Kahn DM and Krubitzer L (2002) Massive cross-modal cortical plasticity and the emergence of a new cortical field in developmentally blind mammals. Proc Natl Acad Sci U S A. 99:11429-11434. PMCID: PMC123273
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