

CURRICULUM VITAE**Stephen G. Lomber**

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Education

1988 B.S. with Distinction, Neuroscience Minor: Psychology
The University of Rochester, Rochester, New York

1994 Ph.D., Anatomy and Neurobiology Minor: Physiology
Boston University School of Medicine, Boston, Massachusetts

Research and Professional Service

1986 – 1988 Research Assistant, Laboratory of Dr. Michael King, Department of Physiology,
University of Rochester School of Medicine, Rochester, NY

1988 – 1994 Pre-Doctoral Fellow, Department of Anatomy, Laboratory of Dr. Bertram Payne,
Boston University School of Medicine, Boston, Massachusetts

1994 – 1997 Research Associate, Department of Psychology, Laboratory of Dr. Paul Cornwell,
The Pennsylvania State University, University Park, Pennsylvania

1997 – 2001 Research Associate, Department of Anatomy and Neurobiology
Boston University School of Medicine, Boston, Massachusetts

2001 – 2005 Assistant Professor, School of Human Development
The University of Texas at Dallas, Richardson, Texas

2005 – 2006 Associate Professor, School of Behavioral and Brain Sciences
The University of Texas at Dallas, Richardson, Texas

2006 – 2011 Associate Professor, Department of Physiology and Pharmacology, and
Department of Psychology, The University of Western Ontario, London, Ontario

2011– Present Professor, Department of Physiology and Pharmacology, and
Department of Psychology, The University of Western Ontario, London, Ontario

Other Appointments

1994 - 1996 Visiting Scientist, Laboratorium voor Neuro- en Psychofysiologie
Katholieke Universiteit Leuven, Belgium

1995 - 1998 Visiting Scientist, Cerveau et Vision, INSERM Unité 371, Bron, France

1999 – 2009 Visiting Scientist, Department of Neurophysiology
Max-Planck-Institute for Brain Research, Frankfurt am Main, Germany

2001 – 2005 Investigator, Center for BrainHealth
The University of Texas at Dallas, Richardson, Texas

2001 – 2005 Investigator, Callier Center for Communication Disorders
The University of Texas at Dallas, Richardson, Texas

2001 – 2005 Investigator, Institute for Biomedical Science and Technology
The University of Texas at Dallas, Richardson, Texas

2006 – 2009 Investigator, CIHR Group for Action and Perception,

- The University of Western Ontario, London, Ontario
- 2006 – 2011 Investigator, Centre for Brain and Mind,
The University of Western Ontario, London, Ontario
- 2006 – Present Principal Investigator, National Centre for Audiology,
The University of Western Ontario, London, Ontario
- 2011 – Present Affiliate Scientist, Robarts Research Institute
The University of Western Ontario, London, Ontario
- 2011 – Present Investigator, The Brain and Mind Institute,
The University of Western Ontario, London, Ontario
- 2012 – Present Associate Investigator, NeuroDevNet, Networks of Centres of Excellence

Professional and Honor Societies

- Acoustical Society of America (2012-Present)
- American Association of Anatomists (1992-2003)
- American Physiological Society (2005 – Present)
- Association for Psychological Science (2000-2006, 2013-Present)
- Association for Research in Otolaryngology (ARO) (2004 – Present)
- Association for Research in Vision and Ophthalmology (1989-1996)
- Cajal Club (1994 – Present)
- Canadian Academy of Audiology (2013 – Present)
- Canadian Association for Neuroscience (CAN) (2007 – Present)
- Canadian Society for Brain, Behaviour and Cognitive Science (2006 – Present)
- European Brain and Behaviour Society (EBBS) (1999 – Present)
- Faculty for Undergraduate Neuroscience (FUN) (2002 – Present)
- International Brain Research Organization (IBRO) (1989-Present)
- National Eagle Scout Association - Life Member
- Society for Neuroscience (SFN) (1989-Present)
- Vision Sciences Society (VSS) (2000-2008)

Honors and Awards

- 1984 Eagle Scout
- 1985 – 1988 Meridian Society (University of Rochester Undergraduate Honor Society)
- 1987 University of Rochester Student Achievement Award
- 1992 Boston University Graduate Student Research Award
- 1994 Boston University School of Medicine Dean's Research Award
- 1994 Krieg Cortical Kudos Award - Cortical Scholar Prize,
presented by The Cajal Club (in *Cerebral Cortex* **4**: 681-684; 1994).
- 2003 Excellence in Teaching Award, School of Behavioral and Brain Sciences,
The University of Texas at Dallas.
- 2004 Callier Scholar Award - The University of Texas at Dallas
- 2007 Schulich School of Medicine and Dentistry Dean's Award of Excellence –
Team Award – CIHR Group on Perception and Action
- 2007 – Present Air Canada Elite Status
- 2008 - 2012 University Student's Council Teaching Honour Roll - Award of Excellence,
The University of Western Ontario
- 2010 Tim Horton's "Roll-up-the-Rim" Donut Winner
- 2010 – 2012 Faculty Scholar, The University of Western Ontario
- 2012 Schulich School of Medicine and Dentistry Dean's Award of Excellence –
Faculty Award for Research Excellence
- 2013-2014 James McKeen Cattell Foundation Fellow

Editorial Service

- 1999 Special Issue, *Journal of Neuroscience Methods*. Assessment of Neural Function in the Intact Brain with Reversible Deactivation. Volume 86, Number 2. **Lomber, S.G.** and Payne, B.R., Editors.
- 2012 Special Issue, *Neural Plasticity*. Sensory Deprivation and Brain Plasticity. Ptito, M., Kupers, R., **Lomber S.G.** and Pietrini, P., Editors.
- 2013 – Present Section Editor, *Hearing Research*, Barbara Canlon (Editor-in-Chief)

Travel Awards

- 1991 United States National Research Council Travel Fellowship
- 1992 Women in Neuroscience Travel Award
- 1993 Boston University School of Medicine Travel Grant
- 1994 European Neuroscience Association Young Scientist Travel Grant

University of Texas at Dallas, University Committee Service

- 2002 – 2004 Institutional Animal Care and Use Committee
- 2002 – 2005 Health Professions Advisory Committee
- 2003 – 2005 Institute of Biomedical Sciences and Technology

University of Texas at Dallas, School of Human Development

- 2001 – 2003 Faculty Advisor – Undergraduate Neuroscience Student Association
- 2003 – 2004 Colloquium Series Co-Coordinator
- 2003 – 2004 Neuroscience Faculty Search Committee
- 2003 – 2004 Undergraduate Studies Committee
- 2003 – 2005 Executive Committee
- 2004 – 2005 Graduate Studies Committee

University of Western Ontario Service

- Feb, 2009 "The Plastic Brain", Invited Speaker, Western Senior Alumni Association (London Chapter)
- 2009 One of six faculty members featured in "This is Western" promotional DVD for prospective faculty and administrators.
- Nov, 2009 "The Plastic Brain", Invited Speaker, Western Senior Alumni Association (Toronto Chapter)
- April, 2010 "The Plastic Brain", Invited Speaker, Western Senior Alumni Association (Sarnia Chapter)
- Sept, 2010 "What You Don't See or Hear", Invited Speaker, Western Senior Alumni Association (London Chapter)

University of Western Ontario, Department of Physiology and Pharmacology Service

- 2006 – 2011 Physiology 4980 Course Committee
- 2010 – Present Space and Facilities Committee
- 2012 – Present Appointments Committee
- 2012 – Present Executive Committee

University of Western Ontario, Department of Psychology Service

- 2007 – 2012 Animal Care Committee
- 2009 – Present Space and Facilities Committee

University of Western Ontario, Schulich School of Medicine and Dentistry Service

- 2008, 2009 NSERC Undergraduate Student Research Award (USRA) Adjudication Panel
- 2008 – 2010 UWO Neuroscience Summer School Committee
- October, 2009 Speaker in Graduate Lecture Series "Solving the Puzzle of Brain and Mind"
- 2011 – Present Medicine, Research and Society Committee

University of Western Ontario, School of Graduate and Postdoctoral Studies Service

2006 – 2009	Neuroscience Graduate Program Committee Member
2007, 2008	NSERC Masters and Doctoral Award Selection Committee
2007, 2008	Ontario Graduate Scholarship (OGS) Selection Committee
2008 – Present	Neuroscience Graduate Program Steering Committee Member
Sept, 2008	Graduate Career Day Panel Discussion “Negotiating Your First Faculty Contract”
2009, 2010	NSERC Masters and Doctoral Award Selection Committee
2010 – Present	Neuroscience Graduate Program Committee Member

Provincial Service

2011	Ontario Health Study (OHS) – Audiology, ENT, and Speech Working Group
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Society for Neuroscience

2013 – Present	Committee of Animals in Research
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Gordon Research Conference on the Auditory System

2012	Speaker and Session Chair
2014	Conference Vice Chair
2016	Conference Chair

Grant Review Service

2003, 2004	National Science Foundation, USA
2004	Canada Council for the Arts, Killam Research Fellowship Program
2005	Medical Research Council of Belgium Grant Reviewer
2005 – 2006	Central Visual Processing Study Section, National Institutes of Health, USPHS
2007, 2008	NSERC Grant Selection Committee – Psychology: Brain, Behaviour, and Cognition
2008	City University of New York Grant Review Panel
2008	Central Visual Processing Study Section, National Institutes of Health, USPHS
2008	CIHR Behavioural Sciences - C Grant Review Committee (Dec, 2008) - Member
2009	Co-Chair, NSERC Grant Selection Committee – Psychology: Brain, Behaviour, and Cognition
2009	CIHR Behavioural Sciences - C Grant Review Committee (Dec, 2009) - Member
2010	Co-Chair, NSERC Grant Evaluation Committee 1502 – Biological Systems and Functions
2010 – 2012	Center for Scientific Review College of Reviewers, National Institutes of Health
2010 – Present	CIHR Behavioural Sciences - C Grant Review Committee – Permanent Member

Prior Research Support

1991-1994	NIH/NIMH Pre-Doctoral Fellowship “Cerebral Function Following Infant Brain Damage” with Bert Payne, Research Supervisor, Boston University School of Medicine
1994-1996	NIH/NINDS Post-Doctoral Fellowship “Cortical Circuits Underlying Cognitive Functions” with Paul Cornwell, Research Supervisor, Pennsylvania State University
1995-1996	North Atlantic Treaty Organization (NATO) Collaborative Research Grant "Function of Feedback Connections in the Primate Visual System" with Dr. Jean Bullier, Cerveau et Vision, INSERM Unité 371, Bron, France
1999	Human Frontier Science Program Short-Term Fellowship, 1 July - 15 August "Optical Imaging of Feedback Connections in Visual Cortex" Host: Professor Wolf Singer Max-Planck-Institute for Brain Research, Frankfurt am Main, Germany

- 1999-2003 National Science Foundation, Behavioral Neuroscience Program
 “Midbrain Contributions to Cerebral Functions”
 Principal Investigator: Stephen G. Lomber
- 2001-2001 Deutscher Akademischer Austausch Dienst (DAAD)
 German Academic Exchange Service, Study Visit Program
 “Midbrain Contributions to Neural Representations in Visual Cortex”
 Principal Investigator: Stephen G. Lomber
- 2003-2006 National Institute of Deafness and Other Communication Disorders
 “Cerebral Organization Following Cochlear Implant”
 Principal Investigator: Stephen G. Lomber
- 2004-2006 National Institute for Neurological Disorders and Stroke
 “Development of fMRI Compatible Reversible Deactivation”
 Principal Investigator: Stephen G. Lomber
- 2004-2008 National Science Foundation, Behavioral Neuroscience Program
 “Cerebral Control of Aurally-Mediated Behavior”
 Principal Investigator: Stephen G. Lomber
- 2006 The Hearing Foundation of Canada
 "Maximizing the Benefit of Cochlear Implant"
 Principal Investigator: Stephen G. Lomber
 Award: \$25,000
- 2006 Canada Foundation for Innovation and Ontario Research Fund
 “National Centre for Audiology”
 Infrastructure Support Grant
 Principal Investigator: Prudence Allen
 Award: \$195,172
- 2006-2009 Canadian Institutes of Health Research (CIHR)
 “Functional Organization of Auditory Cortex Following Cochlear Implant”
 Principal Investigator: Stephen G. Lomber
 Annual Award: \$102,000
- 2008 Canada Foundation for Innovation and Ontario Research Fund
 “Laboratory to Examine Auditory Cortical Function Following Cochlear Implant”
 Infrastructure Support Grant
 Principal Investigator: Stephen G. Lomber
 Award: \$359,994
- 2009 The Hearing Foundation of Canada
 "Establishing Acoustic Function in Auditory Cortex Following Cochlear Implant"
 Principal Investigator: Stephen G. Lomber
 Award: \$25,000
- 2006-2011 Natural Sciences and Engineering Research Council (NSERC)
 “Functional Organization of Non-Primary Auditory Cortex”
 Principal Investigator: Stephen G. Lomber
 Annual Award: \$29,000
- 2010 – 2011 NSERC - Research Tools and Instruments (RTI) Grant
 “Equipment for electrophysiological recording laboratory
 and thermodynamic imaging”
 Principal Investigator: Stephen G. Lomber
 Award: \$85,268
- 2008 – 2013 Canadian Institutes of Health Research (CIHR)
 “Adaptive Cortical Plasticity Following Deafness” (*ranked 1/40 in BSC panel*)
 Principal Investigator: Stephen G. Lomber
 Annual Award: \$171,000

Current Research Support

1 October 2013 – 30 September 2018

Canadian Institutes of Health Research (CIHR)

“Adaptive Cortical Plasticity Following Deafness” (*ranked 3/38 in BSC review panel*)

Principal Investigator: Stephen G. Lomber

Annual Award: \$203,171

1 October 2009 – 30 September 2014

Canadian Institutes of Health Research (CIHR)

“Functional Organization of Auditory Cortex Following Cochlear Implant”
(*ranked 4/45 in BSC review panel*)

Principal Investigator: Stephen G. Lomber

Annual Award: \$172,990

1 April 2011 – 31 March 2016

Natural Sciences and Engineering Research Council (NSERC)

“Functional Organization of Non-Primary Auditory Cortex”

Principal Investigator: Stephen G. Lomber

Annual Award: \$70,000

1 April 2011 – 31 March 2016

Canadian Institutes of Health Research (CIHR)

“Perception of Audiovisual Communication Signals” (*ranked 3/50 in BSC review panel*)

Principal Investigator: Martin Paré (Queens University)

Co-Investigators: Stephen G. Lomber, Ingrid Johnsrude, Kevin Munhall

Annual Award: \$196,868

1 April 2011 – 31 March 2016

Canadian Institutes of Health Research (CIHR)

“Role of frontal cortex projections to the superior colliculus in saccade suppression and task”
switching in primates” (*ranked 5/50 in BSC review panel*)

Principal Investigator: Stefan Everling

Co-Investigator: Stephen G. Lomber

Annual Award: \$170,831

2012 - 2013

Canada Foundation for Innovation and Ontario Research Fund

“Laboratory to Non-Human Primate Auditory Neuroscience”

Infrastructure Support Grant

Principal Investigator: Stephen G. Lomber

Award: \$369,774

Invited Lectures, Seminars, and Colloquia

1. *"Expansion of the retino-geniculo-cortical pathway following removal of primary visual cortex in the developing cat."* Department of Anatomy and Neurobiology, Boston University School of Medicine, Boston, Massachusetts. December, 1993.
2. *"Spatial, motion and form vision dissociations between cat parietal and temporal cortices."* Institut d'Anatomie, Université de Lausanne, Lausanne, Switzerland. September, 1996.
3. *"Visually-guided behavior dissociations between cat parietal and temporal cortices."* INSERM Unit 371, Cerveau et Vision, Bron, France. September, 1996.
4. *"Spatial, motion and form vision dissociations between parietal and temporal cortices in the cat."* Department de Psychologie, Université de Montréal, Montréal, Quebec, Canada. November, 1997.
5. *"Behavioral dissociation of the 'what' and 'where' processing streams in visual cortex."* Department of Psychology, Bowdoin College, Brunswick, Maine. March, 1999.
6. *"Dissociation of the 'what' and 'where' processing streams in visual cortex of the behaving cat."* Department of Neurobiology and Anatomy, Wake Forest University School of Medicine, Winston-Salem, NC. September, 2000.
7. *"Redistribution of extrastriate cortex functions following visual cortex damage during development."* Program in Cognition and Neuroscience, School of Human Development, University of Texas at Dallas, Richardson, TX. January, 2001.
8. *"Interactions in the cerebral cortex underlying visual behavior and cognition".* Neuroscience Day, Boston University, Boston, MA. February, 2001.
9. *"Redistribution of extrastriate cortex functions following visual cortex damage during development."* Department of Biological Structure, University of Washington School of Medicine, Seattle, Washington. March, 2001.
10. *"Midbrain Contributions to Cerebral Functions."* Department of Physiology, University of Frankfurt Medical School, Frankfurt, Germany. December, 2002.
11. *"Midbrain Contributions to Cerebral Functions."* Department of Neurology, University of Tübingen Medical School, Tübingen, Germany. December, 2002.
12. *"Midbrain Contributions to Cerebral Functions."* Department of Psychology, University of Western Ontario, London, Ontario, Canada. July, 2003.
13. *"Midbrain Contributions to Visual and Acoustic Functions."* Department of Anatomy, Medical College of Virginia, Richmond, Virginia. September, 2004.
14. *"Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex".* Department of Physiology and Pharmacology, University of Western Ontario, London, Ontario. January, 2005.
15. *"Contributions of Non-Primary Auditory Cortex to "What" and "Where" Processing in the Behaving Cat".* Department of Physiology, University of Wisconsin, Madison, Wisconsin, March, 2005
16. *"Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex".* Department of Psychology, University of Montreal, Montreal, Quebec. September, 2005.
17. *"Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex".* National Centre for Audiology, University of Western Ontario, London, Ontario. December, 2005.
18. *"Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex".* Department of Neurophysiology, Max-Planck Institute for Brain Research, Frankfurt am Main, Germany. January, 2006.
19. *"Midbrain Contributions to Visual and Acoustic Functions."* Department of Zoology, Technical University of Darmstadt, Darmstadt, Germany. January, 2006.

20. "*Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex*". Department of Anatomy, Virginia Commonwealth University School of Medicine, Richmond, Virginia. March, 2006.
21. "*Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex*". Department of Neuroscience, University of Connecticut Health Sciences Center, Farmington, Connecticut. April, 2006.
22. "*Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex*". Department of Neurophysiology, University of Hamburg, Hamburg, Germany. September, 2006.
23. "*Cerebral Systems Mediating "What" versus "Where" Processing in the Visual and Auditory Cortex*". Department of Psychology, Dalhousie University, Halifax, Nova Scotia. March, 2007.
24. "*Cortical Plasticity Following Deafness and Cochlear Implant*". Behavior, Cognition, and Neuroscience Program, Department of Biology, University of Windsor. Windsor, Ontario. November, 2007.
25. "*Cortical Plasticity Following Deafness and Cochlear Implant*". National Centre for Audiology, University of Western Ontario, London, Ontario. February, 2008.
26. "*Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf Cats*". Department of Auditory Learning and Speech, Leibniz Institute for Neurobiology. Magdeburg, Germany. July, 2008
27. "*Contributions of Auditory Cortex to the Superior Visual Abilities of the Congenitally Deaf*". Department of Physiology, Queen's University, Kingston, Ontario. October, 2008.
28. "'What' and 'Where' Processing in Auditory Cortex", Laboratory for Neuropsychology, National Institute for Mental Health, National Institutes of Health, Bethesda, Maryland. October, 2008.
29. "*Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf Cats*". Program in Neuroscience and Cognitive Science, University of Maryland, College Park, Maryland. October, 2008.
30. "*Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf*". National Centre for Audiology, University of Western Ontario, London, Ontario. February, 2009.
31. "*Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf Cats*". Keck Center for Integrative Neuroscience, University of California at San Francisco, June, 2009.
32. "*Cross-Modal Plasticity in Auditory Cortex During Deafness and Following Cochlear Implant*". Centre for Neuroscience Studies, Queen's University, Kingston, Ontario. November, 2009.
33. "'What" and "Where" Processing in Auditory Cortex". Neuroscience Graduate Program, Emory University, Atlanta, Georgia. November, 2009.
34. "*Cross-Modal Plasticity in Auditory Cortex During Deafness and Following Cochlear Implant*". Neuroscience and Mental Health Group, The Hospital for Sick Children (SickKids), Toronto, Ontario. January, 2010.
35. "*Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf Cats*". Department of Neurobiology and Anatomy, University of Rochester, Rochester, New York. May, 2010.
36. "*Acoustic Experience Alters How You See the World*". Department of Experimental Otolary, Medical University of Hannover, Hannover, Germany. July, 2010.
37. "*Acoustic Experience Alters How You See the World*". Department of Psychology, Neuroscience & Behaviour, McMaster University, Hamilton, ON, September, 2010.
38. "*Acoustic Experience Alters How You See the World*". Department of Physiology and Biophysics, Howard University College of Medicine, Washington, DC, November, 2010.

39. “*Acoustic Experience Alters How You See the World*”. Department of Otolaryngology, University of California at San Francisco, November, 2010.
40. “*Acoustic Experience Alters How You See the World*”. Department of Hearing and Speech Sciences, Vanderbilt University School of Medicine, Nashville, TN, December, 2010.
41. “*Acoustic Experience Alters How You See the World*”. Robarts Research Institute, The University of Western Ontario, London, ON, January, 2011.
42. “*Acoustic Experience Alters How You See the World*”. Department of Anatomy and Neurobiology, Boston University School of Medicine, MA, February, 2011.
43. “*Acoustic Experience Alters How You See the World*”. Cerveau et Cognition, CNRS UMR 5549, Toulouse, France, April, 2011.
44. “*Acoustic Experience Alters How You See the World*”. Center for Hearing and Deafness, University at Buffalo, Buffalo, NY, April, 2011.
45. “*Acoustic Experience Alters How You See the World*”. Hotchkiss Brain Institute, University of Calgary, Calgary, Alberta, May, 2011.
46. “*Acoustic Experience Alters How You See the World*”. Institute of Neuroscience of Castilla y León, University of Salamanca, Spain, September, 2011.
47. “*Acoustic Experience Alters How You See the World*”. Massachusetts Eye and Ear Infirmary, Boston, MA, October, 2011.
48. “*Acoustic Experience Alters How You See the World*”. Centre for Neuroscience, University of Alberta, Edmonton, Alberta, December, 2011.
49. “*Acoustic Experience Alters How You See the World*”. Department of Neurobiology, Harvard Medical School. Boston, MA, April, 2012.
50. “*Acoustic Experience Alters How You See the World*”. Hearing Research Center, Boston University, Boston, Massachusetts, April, 2012.
51. “*Acoustic Experience Alters How You See the World*”. Smith-Kettlewell Eye Research Institute, San Francisco, CA, October, 2012.
52. “*Acoustic Motion Processing in Auditory Cortex*”. Center for Integrative Neuroscience, University of California at San Francisco, October, 2012.
53. “*Acoustic Experience Alters How You See the World*”. Department of Psychology and Neuroscience, Dalhousie University, Halifax, Nova Scotia. November, 2012.
54. “*Acoustic Experience Alters How You See the World*”, Department of Speech and Hearing Sciences, University of Washington, Seattle, Washington, April, 2013.
55. “*Acoustic Experience Alters How You See the World*”, Department of Otorhinolaryngology, University of Pennsylvania School of Medicine, Philadelphia, PA, July, 2013.

Scheduled Lectures, Seminars, and Colloquia:

- 1) “*Acoustic Experience Alters How You See the World*”, Department of Neuroscience, School of Medicine, Tsinghua University, Beijing, China, December, 2013.
- 2) “*Acoustic Experience Alters How You See the World*”. Department of Anatomy and Neurobiology, Virginia Commonwealth University School of Medicine, Richmond, Virginia. December, 2013.

Invited Presentations at Conferences or Symposia / Keynote Speaker:

1. “The spatial relationship between the cerebral cortex and fiber trajectory through the corpus callosum.” Invited Speaker. The satellite workshop of the XXV International Congress of Psychology on the corpus callosum and interhemispheric transfer. Brussels, Belgium. (July, 1992).
2. “The relationship of the cerebral cortex to fiber trajectory through the corpus callosum of the cat.” Invited Speaker. 1994 Annual Meeting of the Cajal Club. Anaheim, CA. (April, 1994).

3. "Cooling inactivation of occipitoparietal and occipitotemporal circuits." Invited Symposium Speaker. Forum of European Neuroscience. Strasbourg, France. (September, 1996).
4. "Adaptive expansion of retino-extrastriate pathways following damage of immature primary visual cortex". Invited Symposium Speaker. Symposium of the Forum of European Neuroscience, "Cerebral-Lesion Induced Adaptive Neuroplasticity". Berlin, Germany. (June, 1998).
5. "Contributions of converging visual signals to receptive field representations." Invited Symposium Speaker. 3rd Forum of European Neuroscience, Paris, France. (July, 2002).
6. "Reorganization of Cerebral Functions After Damage to Visual Cortex." Reprogramming the Human Brain Symposium, UT/ Southwestern Medical Center at Dallas, Texas. (April, 2003).
7. "Functional Specialization in Non-Primary Auditory Cortex". Invited Speaker, 2006 International Conference on Auditory Cortex – The Listening Brain, Grantham, England. (September, 2006).
8. "Maximizing the Benefit of Cochlear Implant". Invited Speaker, Beyond the Audiogram Conference. National Centre for Audiology, University of Western Ontario, London, Ontario. (January, 2007).
9. "Functional Specialization in Non-Primary Auditory Cortex". The 2007 Treva Glazebrook Lecture, Graduate Program in Neuroscience, University of Western Ontario, London, Ontario. (March, 2007).
10. "Adaptive Developmental Neuroplasticity in Auditory Cortex During Deafness and Following Cochlear Implant". Invited Speaker, Brain and Behaviour Research Day – Vision and Audition. The Hospital for Sick Children, Toronto, Ontario. (May, 2007).
11. "Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf Cats". Invited Symposium Speaker, 2008 International Multisensory Research Forum, Hamburg, Germany (July, 2008).
12. "Double-Dissociation of "What" and "Where" Processing in Auditory Cortex". Breaking News in Neuroscience Symposium, Invited Symposium Speaker, 2008 Forum of European Neuroscience, Geneva, Switzerland (July, 2008).
13. "Localization of Visual Functions in "Deaf" Auditory Cortex". Keynote Speaker. Symposium on Plasticity and Sensory Substitution, School of Optometry, Université de Montréal, (April, 2009).
14. "Contributions of Auditory Cortex to Visual Function During Deafness and Following Cochlear Implant". Quebec Vision Network, Brain and Perception Scientific Day Keynote Speaker. Université de Montréal, (May, 2009).
15. "Crossmodal Plasticity: What is Compensatory and What is Not?". Invited Symposium Speaker, 2009 International Multisensory Research Forum, New York, NY (June, 2009).
16. "Behavioural, Anatomical, and Physiological Support for Serial and Parallel Processing in Auditory Cortex". Invited Speaker, 2009 International Conference on Auditory Cortex, Magdeburg, Germany. (August, 2009).
17. "Cortical Plasticity Following Deafness and Cochlear Implant". Invited Speaker, 2009 Canadian Academy of Audiology Conference, Toronto, Canada (October, 2009).
18. "Experience-dependent Cortical Plasticity Following Deafness and Cochlear Implant", Invited Speaker, Winter Meeting of the Canadian Institute for Advanced Research, Vancouver, Canada (February, 2010).
19. "Contributions of Auditory Cortex to the Superior Visual Abilities of the Congenitally Deaf", Invited Symposium Speaker, 2010 Canadian Association for Neuroscience, Ottawa, Ontario (May, 2010).
20. "Functional Abilities and Underlying Cortical Plasticity Following Deafness and Cochlear Implant". Invited Speaker. XXXII Symposium International, Groupe de Recherche sur le Système Nerveux Central, on Enhancing Performance for Action and Perception -

- Multisensory Integration, Neuroplasticity, and Neuroprosthetics. Montréal, Québec (May, 2010).
21. "Contributions of Auditory Cortex to the Superior Visual Abilities of Congenitally Deaf Cats." Invited Symposium Speaker, 2010 Forum of European Neuroscience, Amsterdam, The Netherlands (July, 2010).
 22. "Experience-dependent Cortical Plasticity Following Deafness", Invited Symposium Speaker, 2011 Canadian Association for Neuroscience, Québec City, Québec (May, 2011).
 23. "Crossmodal Reorganization in the Deaf Switches Sensory, but not Behavioural Roles of Auditory Cortex". Keynote Speaker, 2011 Meeting of the Brain Critical Periods Revisited Network, Montréal, Québec (June, 2011).
 24. "Increasing specificity for complex acoustic stimuli towards the temporal pole of the cat cerebrum." Advances and Perspectives in Auditory Neurophysiology (APAN 2011), Washington, DC (November, 2011).
 25. "Crossmodal Plasticity in Deaf Auditory Cortex". Winter Conference on Neural Plasticity. St. Kitts (February, 2012).
 26. "Acoustic Motion Processing in Auditory Cortex". Invited Symposium Speaker, 163rd Meeting of the Acoustical Society of America and the 8th Meeting of the Acoustical Society of China, Hong Kong, China (May, 2012).
 27. "Acoustic Motion Processing in Auditory Cortex". Invited Speaker, Gordon Conference on the Auditory System. Colby College, Waterville, Maine (July, 2012).
 28. "Adaptive Cortical Neuroplasticity Following Deafness". Invited Symposium Speaker. 30th International Congress of Psychology. Cape Town, South Africa (July, 2012).
 29. "Crossmodal Plasticity in Auditory Cortex Following Hearing Loss". Invited Speaker. Plasticity in the Auditory System Conference. Karolinska Institute, Stockholm, Sweden. (October, 2012).
 30. "Auditory Cortex Plasticity Following Deafness and Cochlear Implant". Keynote Speaker. 2012 HearRing Meeting and Hearing Preservation Workshop. London, Ontario, Canada (October, 2012).
 31. "Modified Areal Cartography in Auditory Cortex Following Deafness". Winter Conference on Neural Plasticity. Curacao, Netherlands Antilles (February, 2012).
 32. "Cortical Plasticity in the Developing Brain Following Increasing Durations of Acoustic Experience". Invited Speaker. 2013 Society for Research in Child Development Biennial Meeting. Seattle, Washington. (April, 2013).
 33. "Acoustic Experience Alters How You See the World". Keynote Speaker. 2013 Southern Ontario Neuroscience Association Annual Meeting, Wilfred Laurier University, Waterloo, ON. (May, 2013).
 34. "Crossmodal Cortical Plasticity in the Developing Brain Following Sensory Loss" Invited Symposium Speaker, 2013 International Multisensory Research Forum, Jerusalem, Israel (June, 2013).
 35. "Sensory Substitution in Deaf Auditory Cortex: Evidence in Support of the Supramodal Hypothesis". Invited Speaker. Sensory Substitution, Brain Plasticity and Visual Rehabilitation Workshop. Hebrew University in Jerusalem, Israel (June, 2013).
 36. "Adaptive Cortical Plasticity in the Developing Brain Following Sensory Loss". Invited Speaker. Canada-Israel Symposium on Brain Plasticity, Learning, and Education. University of Western Ontario, London, Ontario (June, 2013).
 37. "Crossmodal Plasticity in Auditory Cortex Following Hearing Loss". Invited Symposium Speaker, 2013 Forum of European Neuroscience Featured Regional Meeting, Prague, Czech Republic (September, 2013).
 38. "How Brain Development Depends on Acoustic Experience". Keynote Speaker. 16th Annual Canadian Academy of Audiology Conference, St. John's, Newfoundland (October, 2013).

Scheduled Presentations at Conferences or Symposia / Keynote Speaker:

- 1) “*Plasticity of Auditory Cortex Following Deafness: Implications for Cochlear Prosthetics*”. Invited Speaker. 3rd International Conference on Medical Bionics: Engineering Solutions for Neural Disorders. Phillip Island, Victoria, Australia (November, 2013).
- 2) “*Cortical Cartography Following Deafness*”. Invited Symposium Speaker. 2014 Mid-Winter Meeting of the Association for Research In Otolaryngology, San Diego, CA (February, 2014).

Articles in refereed publications (published or accepted):

h-index = 32 (Google Scholar, 1 October 2013)

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1. Hall, A.J., Woller, E.M., Payne, B.R., and **Lomber, S.G.** (2013) Neglected sight: Preserved visual functions within a neglected hemifield. *Behavioural Brain Research* (in review).
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Other Refereed Contributions:

Books:

1. **Lomber, S.G.** and Galuske, R.A.W., Editors (2002) *Virtual Lesions: Understanding Cortical Function with Reversible Deactivation*. (Oxford, UK: Oxford University Press).
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1. **Lomber, S.G.**, Siwek, D.F. and Payne, B.R. (1990) Transcallosal interactions in the cat visual cortex revealed by reversible cooling. *Investigative Ophthalmology & Visual Science* **31** (4): 398.
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148. Brown, T.A., Joanisse, M.F., and **Lomber, S.G.** (2012) Characterisation of the BOLD response in cat auditory cortex. *Association for Research in Otolaryngology Abstracts*, Program No. 513.
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150. **Lomber, S.G.** (2012) Acoustic motion processing in auditory cortex. *J Acoust Soc Am*. 131: 3441.
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159. Chabot, N., Kok, M. and **Lomber, S.G.** (2012) Amplified somatosensory and visual cortical projections to the anterior auditory field of early- and late-deaf cats. *Proceedings of the 2012 International Conference on Auditory Cortex*.

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165. Smolyanskaya, A., **Lomber, S.G.**, and Born, R.T. (2012) Changes in MT-related decision circuitry following reversible inactivation of V2 and V3. Program No. 464.08. 2012 *Abstract Viewer/Itinerary Planner*. New Orleans, LA: Society for Neuroscience. Online.
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168. **Lomber, S.G.** (2013) Cortical plasticity in the developing brain following increasing durations of acoustic experience". Society for Research in Child Development Abstracts 2-150.
169. Brown, T.A., and **Lomber, S.G.** (2013) Cross-modal hemodynamic activity in non-primary areas of deaf cat auditory cortex. *7th Annual meeting of the Canadian Association for Neuroscience* #1D108, pg. 48.
170. Peel, T.R., **Lomber, S.G.**, and Corneil, B.D. (2013). Unilateral inactivation of frontal eye fields decreases visual, delay, and saccadic activity in intermediate superior colliculus. *7th Annual meeting of the Canadian Association for Neuroscience* #1D109, pg. 48.
171. Hall, A.J. and **Lomber, S.G.** (2013) Core auditory cortex of the cat revealed using high-field fMRI. *7th Annual meeting of the Canadian Association for Neuroscience* #1D111, pg. 49.
172. Carrasco, A., Kok, M.A. and **Lomber, S.G.** (2013) Effects of core auditory cortex deactivation on neuronal responses to simple and complex acoustic signals in the contralateral anterior auditory field.. *7th Annual meeting of the Canadian Association for Neuroscience* #1D113, pg. 50.
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174. Wong, C., Kral, A., and **Lomber, S.G.** (2013) Duration of Acoustic experience shapes development of auditory cortex cartography. *7th Annual meeting of the Canadian Association for Neuroscience* #1D119, pg. 52.
175. Chabot, N., Kok, M. and **Lomber, S.G.** (2013) Amplified cortical, but not thalamic, somatosensory and visual projections to the anterior auditory field following early- or late-onset deafness. *7th Annual meeting of the Canadian Association for Neuroscience* #1D122, pg. 53-54.
176. Peel, T.R., **Lomber, S.G.**, and Corneil, B.D. (2013) Dorsolateral prefrontal cortex deactivation and saccade-related local field potential activity in the superior colliculus. *7th Annual meeting of the Canadian Association for Neuroscience* #2D111, pg. 137.

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180. Peel, T.R., Womelsdorf, T., **Lomber, S.G.**, and Corneil, B.D. (2013) The functional contribution of the frontal eye fields to spiking activity and local field potentials in the intermediate superior colliculus. Program No. 362.03. 2013 *Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience. Online.
181. Chan, J.L., Koval, M.J., Womelsdorf, T., **Lomber, S.G.**, and Everling, S. (2013) Effects of prefrontal cortex deactivation on local field potential activity in the superior colliculus. Program No. 362.07. 2013 *Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience. Online.
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183. Trott, A., **Lomber, S.G.**, and Born, R.T. (2013) How smart is surround suppression in V1 and how dumb does it get when feedback from V2/V3 is removed? Program No. 358.17. 2013 *Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience. Online.
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186. Meredith, MA, Chabot N, and **Lomber, SG.** (2013) Cortico-cortical connections subserving crossmodal plasticity in auditory field of the anterior ectosylvian sulcus (FAES) in the early-deaf. Program No. 455.08. 2013 *Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience. Online.
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Teaching Service

Spring, 1990 - 1993

Laboratory Assistant, GMS AN 601, Fundamentals of Neuroscience
Boston University, Massachusetts.

Fall, 1990 - 1993

Laboratory Assistant and Tutor, GMS AN 702, Human Gross Anatomy
Boston University School of Medicine, Massachusetts.

Spring, 1994

Lecturer and Laboratory Instructor, GMS AN 601, Fundamentals of Neuroscience
Boston University School of Medicine, Massachusetts.

Spring, 1995

Lecturer and Instructor, Introduction to Psychology
Pennsylvania State University, University Park, Pennsylvania

Spring, 1996

Lecturer and Instructor, Behavioral Neuroscience
Pennsylvania State University, University Park, Pennsylvania

Spring, 1997

Lecturer, GMS BN 807, Developmental Neurobiology
Boston University, Massachusetts.

Spring, 1999

Lecturer, GMS BN 809, Developmental Neurobiology
Boston University, Massachusetts.

Spring, 2000

Lecturer, GMS BN 804, Visual Neuroscience
Boston University, Massachusetts.

Fall, 1996 - 2000

Lecturer and Laboratory Instructor, GMS AN 702, Human Gross Anatomy
Boston University School of Medicine, Massachusetts.

Fall, 2001; Fall, 2002; Fall, 2003

Instructor, HCS 7344, Functional Human Neuroanatomy
The University of Texas at Dallas.

Spring, 2002; Spring 2003

Instructor, HCS 7373, Visual Neuroscience
The University of Texas at Dallas.

Spring, 2004

Instructor, HCS 4390, Neuroscience of Perception
The University of Texas at Dallas.

Fall, 2004; Spring, 2005; Fall, 2005

Instructor, ACN 6181, Biology of Language
The University of Texas at Dallas.

Fall, 2002; Spring, 2003; Fall, 2003; Spring, 2004; Fall, 2004; Spring, 2005; Fall, 2005

Instructor, NSC 3361, Introduction to Neuroscience
The University of Texas at Dallas

Winter, 2007; Winter 2008, Winter 2009, Winter 2010, Winter 2011

Lecturer, Neuroscience 9500
The University of Western Ontario

Winter, 2008; Fall 2009; Winter 2010; Winter, 2011; Winter, 2012

Instructor, Psychology 2115, Sensation and Perception
The University of Western Ontario

Fall and Winter, 2012

Course Manager and Instructor, Neuroscience 2000, Introduction to Neuroscience
The University of Western Ontario

Current Collaborators:

Richard Born,	Harvard Medical School, Boston, MA
Michael Goldberg,	Columbia University, New York, NY
Georgio Innocenti,	Karolinska Institute, Stockholm, Sweden
Andrej Kral,	Medical University of Hannover, Germany
Alex Meredith,	Virginia Commonwealth University, Richmond, VA
Donald Mitchell	Dalhousie University, Halifax, Nova Scotia
Tirin Moore,	Stanford University, Palo Alto, CA
Christoph Schreiner	University of California at San Francisco
Cam Teskey	University of Calgary, Calgary, Alberta
Tom Yin,	University of Wisconsin, Madison, WI

Brian Corneil, University of Western Ontario

Stefan Everling, University of Western Ontario
Mel Goodale University of Western Ontario
Ravi Menon University of Western Ontario

Current Trainees

Scholars Elective Students:

Brittany Chow
Alice (Yoo Jin) Lee

4th Year Honour Students:

Jennifer Peng - Physiology and Pharmacology

Masters Students:

2012 – Present Carmen Wong - Neuroscience

Doctoral Students:

2010 - Present Ameer McMillan – Anatomy and Cell Biology
2010 - Present Melanie Kok - Neuroscience

Postdoctoral Fellows:

2010 - Present Dr. Nicole Chabot
2010 - Present Dr. Andres Carrasco
2010 - Present Dr. Trecia Brown
2012 – Present Dr. Blake Butler
2013 – Present Dr. Daniel Stolzberg

Other External Service:

Public Awareness/Education - Outreach/Assistance to Secondary Schools

Visiting Science Teacher Program, Catholic Memorial High school,
West Roxbury, MA (1997-2001)
Neuroscientist/ Teacher Partners Program, Society for Neuroscience (2001-Present)
Presentations on the Human Brain to Secondary School Psychology/Biology Students
Plano (TX) High School (April, 2002; September, 2002; January, 2003; October, 2003;
March, 2004; November, 2004; March, 2005)
Plano East (TX) High School (Oct., 2002; Feb. & Oct., 2003; Mar. & Nov., 2004; March, 2005;
Nov., 2005)
McKinney (TX) High School (March, 2003; March, 2004; March, 2005)
High School Psychology Faculty In-Service Training, Plano School District (February, 2002)
John Paul II Catholic Secondary School, London, Ontario
(April, 2007; November, 2007; April, 2008; November, 2008; April, 2009)

Other External Service

1991 - 1994 Boston Area Neuroscience Group Steering Committee
2007 – 2010 Assisting The Hearing Foundation of Canada with Major Gifts Fundraising
2007 NSERC GSC12 Restructuring Committee
2009 "The Plastic Brain", Invited Speaker, Forest City Kiwanis Club (London, ON)
2010 "Brain Plasticity", Invited Speaker, Humanist Association of London Ontario
2010 "The Plastic Brain", Invited Speaker, Middlesex Kiwanis Club (London, ON)
2011 "What You Don't See or Hear", Invited Speaker, Middlesex Kiwanis Club (London)

Doctoral Dissertation Examination Committees

Navzer Engineer - May, 2005 - School of Behavioral and Brain Sciences, Univ. of Texas at Dallas
Cheri Percaccio - May, 2006 - School of Behavioral and Brain Sciences, Univ. of Texas at Dallas
Brian G. Ouellette – March, 2008 – External Examiner, Ecolé d'Optométrie, Univ. de Montréal.
Patrice Voss - May, 2009 - External Examiner, Département de Psychologie, Univ. de Montréal.
Trecia Brown - January, 2010 - External Examiner, Dept. of Physiology, University of Toronto.
Daniel Brady – October, 2011 – External Examiner, Dept. of Neurobiology, Harvard University.

Public Communications

Co-Organizer, Center for Brain Health Public Lecture Series. Four public lectures on the brain. *The Brain: An Owner's Guide*, sponsored by public radio station KERA (September, 2002, 2003, 2004, and 2005)
Panelist, *The McCuistion Program*, topic: Discoveries and Hope for Brain Health, On KERA-2, TV, sponsored by Foundation for Responsible Television. (Original Air Date: 11 June 2003).

Other

2002 – Present Member, National Committee, Boy Scouts of America
2007 – Present Member, Portuguese Water Dog Club of Canada
2012 – Present Member, Optimist Club of Arva, Ontario