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Biographical:

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Education:

2000-2002 Postdoctoral research scientist, Department of Biological Sciences,
Columbia University, New York, NY.

1997-2000 Postdoctoral fellow, Section of Neurobiology, Yale University, New Haven, CT.

1992-1997 University of Pittsburgh School of Medicine, Ph.D. Neurobiology, Pittsburgh, PA.

1988-1992 Williams College, BA Biology, Williamstown, MA.

1984-1988 The Bronx High School of Science, Bronx, NY.

Employment:

2016-present Dean of Science, The Graduate Center of The City University of New York, New York, NY.

2018-2019 Acting, Executive Director, Advanced Science Research Center, The City University of New York.

2015-2016 Interim Dean of Science, The Graduate Center of The City University of New York, New York, NY.

2014-2015 Acting Executive Officer, Psychology, The Graduate Center, City University of New York, New York, NY.

2012-present Professor Department of Psychology, Queens College of the City University of New York, Flushing, NY.

Professor, Behavior and Cognitive Neuroscience PhD Training Area (in Psychology), and the Neuroscience PhD sub-program (in Biology), The Graduate Center, City University of New York, New York, NY.

2012-2014 Director – Cognition, Brain and Behavior PhD Programs (Psychology), The Graduate Center, CUNY, New York, NY.

2008-2011 Associate Professor, Department of Psychology, Queens College of the City University of New York, Flushing, NY.

Associate Professor, Neuropsychology PhD sub-program (in Psychology), and the Neuroscience PhD sub-program (in Biology), The Graduate Center, City University of New York, New York, NY.

2002-2007 Assistant Professor, Department of Psychology, Queens College of the City University of New York, Flushing, NY. (Tenure effective Sept 1., 2007)

Assistant Professor, Neuropsychology PhD sub-program (in Psychology), and the Neuroscience PhD sub-program (in Biology), The Graduate Center, City University of New York, New York, NY.

2005-2012 Program Head, Neuropsychology PhD Sub-program (in Psychology), The Graduate Center, City University of New York, New York, NY.

2000-2002 Postdoctoral research scientist, Department of Biological Sciences, Columbia University, New York, NY.

1997-2000 Postdoctoral fellow, Section of Neurobiology, Yale University School of Medicine, New Haven, CT.

1992-1997 Graduate student, Department of Neurobiology, University of Pittsburgh, Pittsburgh, PA.

1991 Summer student, Vision Research Institute, Cornell Medical College, New York, NY.

1990-1991 Junior Advisor, Williams College, Williamstown, MA.

1988-1991 Summer student, Rockefeller University Laboratory of Neurobiology (T.N. Wiesel, director), New York, NY.

Grants:

Active:

2017-2021 NIH NIGMS 1SC3GM122657 Sensory Deprivation and the Perineuronal Net.
 2019-2021 Increasing Gender Equity in Computer Science and Mathematics, Clare B. Luce Foundation,
 2020-2021 PSC CUNY 63693-00-52 Rejuvenating the Aging Brain.

Completed:

2015-2016 PSC-CUNY Award 68793-00-46 Processing moving stimuli in the primary somatosensory cortex
 2014-2015 PSC-CUNY Award # 67668-00 45 Sensory Deprivation and the Perineuronal net.
 2014-2015 URME Award, Processing moving stimuli in the primary somatosensory cortex
 2012-2013 PSC-CUNY TRADA-65455-00 43 Microglia Development and their response to sensory deprivation.
 2011-2013 NIH NS NS077778-01. Barrels XXIV Meeting Grant
 2013 Microglia Activation, URME
 2013 The function of the perineuronal net.
 2011-2012 PSC-CUNY TRADB-42-688. Sensory Experience and its Impact of the Extracellular Matrix.
 2008-2011 NSF#0823785 The Hemo-Neural Hypothesis. PI with C.I. Moorre (MIT)
 2007-2012 NIH NS05878758-01A1 Corticothalamic neurons in barrel cortex, Co-PI with Dr. D.J. Simons (University of Pittsburgh).
 2010-2011 PSC-CUNY 63665-00-41 Sensory Experience and its Impact of Dendritic Development.
 2009-2010 PSC-CUNY 62750-00-40 In vitro evidence for the Hemo-Neural Hypothesis direct costs:
 2008-2009 PSC-CUNY 61494-00 39 Characterization of Corticothalamic Neurons in Rat Somatosensory Cortex,
 2004-2009 consultant to Blumenfeld, H. (P.I.) Departments of Neurology and Neurobiology Yale University School of Medicine, NIH R01 NS049307 “Neuronal firing and neuroimaging in spike-wave seizures.”
 2004-2008 HHMI Grant for Undergraduate Science writing and steering committees,
 2007-2008 Sensory deprivation impacts on sensorimotor interactions PSC-CUNY
 2007-2008 NIH R13 NS061567-01 Barrels XX,
 2007-2008 Anatomical and histological studies utilizing a cryostat. CUNY-Equipment Grant Competition, Co-PI with Dr.’s Bodnar, Croll, Farrell, Pytte and Ranaldi,
 2005-2008 NSF 0521382 “Acquisition of a confocal microscope and biolistic unit for interdisciplinary programs” Co-PI with Dr.’s Michaels, Rotenberg, Short and Fath.
 2007 NSF 0650502 Conference: Barrels Meeting XIX,
 2006-2007 PSC-CUNY 67619-00-37, “Characterizing layer VI neurons in mouse”
 2004-2007 CUNY Collaborative Award, “The “Barrel” Cortex and Whisking Behavior: Unit Recordings Studies in the Awake, Whisking Rodent.” Co-PI with H.P. Zeigler, Hunter College,
 2006 Support of Mentors and their Students (NSF DUE -04262660, “Activity Dependent Development Of Dendrites in Layer VI of Mouse Barrel Cortex”
 2005-2006 PSC-CUNY 67619-00-36, “Characterizing layer VI neurons in mouse”
 2004 CUNY Faculty Development Fund, Neuropsychology Research Day,
 2004-2005 PSC-CUNY 60006-33-35, “Somatosensory-Motor Interactions in Mouse”
 2004-2005 CUNY-Equipment Grant 80212-02-04, “Anatomical analysis of the Nervous system utilizing the Neurolucida system.” Co-PI with Dr.s R. Bodnar, S. Croll and R. Ranaldi
 2003-2004 PSC-CUNY 60006-33-34, “Somatosensory-Motor Interactions in Mouse”
 2001-2004 NIMH-K01 MH01944-01A1, “Imaging neural networks in mouse somatosensory cortex.”
 1999-2000 NIMH-NRSA, F32MH12358-01, “Burst generation and gamma-band oscillations.”
 1995-1997 NSF Research Stipend IBN 94-21380 “Dynamics of cortical columnar organization: biological and computational approaches.”

Honors:

2013	Certificate of Merit, Queens College, CUNY
2009	The Ruby S. Couche Mentorship and Leadership Award (NYC Department of Education)
2008, 2009	CUNY Salute to Scholars Honoree
2008	Journal of Undergraduate Neuroscience Education, Laboratory article of the year (for Ramos, Smith, Croll and Brumberg 2008) – first ever two-time winner
2007	Journal of Undergraduate Neuroscience Education, Laboratory article of the year (for Ramos, Mosieff and Brumberg 2007) – first ever unanimous selection
2007	Patricia Goldman-Rakic Award (Williams College)
2006	CUNY Salute to Scholars Honoree
2003-2004	CUNY Scholars Award
2001-2004	Career Development Award, NIMH
1999-2000	National Research Service Award, NIMH
1993-1995	Fellowship, Neural Processes and Cognition Training Program (now Center for the Neural Basis of Cognition), University of Pittsburgh.
1992-1993	Competitive Dean's Stipend, University of Pittsburgh School of Medicine.
1992	Honors in Biology, Williams College, Williamstown, MA.
1991	Dean's List, Williams College, Williamstown, MA.
1990	Summer Undergraduate Research Fellowship, Rockefeller University, Laboratory of Neurobiology, New York, NY.
1989-1992	Class of 1960 Scholar's Program (Biology), Williams College, Williamstown, MA.

Publications:

h-factor = 26, 2,876 total citations (Google Scholar, September 23, 2020)

Refereed articles:

- Kyriazi, H.T., Carvell, G.E., **Brumberg, J.C.**, Simons, D.J. Quantitative effects of GABA and bicuculline methiodide on receptive field properties in real and simulated whisker barrels. *J. Neurophysiol.*, 75(1996): 547-560.
- Kyriazi, H.T., Carvell, G.E., **Brumberg, J.C.**, Simons, D.J. Effects of baclofen and phaclofen on receptive field properties of rat whisker barrel neurons. *Brain Research*, 712(1996): 325-328.
- Pinto, D.J., **Brumberg, J.C.**, Simons, D.J., Ermentrout, G.B. A quantitative population model of whisker barrels: Re-examining the Wilson-Cowan equations. *J. Computational Neuroscience*, 3(1996):247-264.
- Brumberg, J.C.**, Pinto, D.J, Simons, D.J. Spatial gradients and inhibitory summation in the rat whisker barrel system. *J. Neurophysiol.*, 76(1996):130-140.
- Kyriazi, H.T., Carvell, G.E., **Brumberg, J.C.**, Simons, D.J. Laminar differences in bicuculline methiodide's effects on cortical neurons in the rat whisker/barrel system. *Somatosensory and Mot. Res.*, 15(1998):146-156.
- Brumberg, J.C.**, Pinto, D.J, Simons, D.J. Cortical columnar processing in the rat whisker-to-barrel system. *J. Neurophysiol.*, 82(1999):1808-1817.
- Pinto, D.J, **Brumberg, J.C.**, Simons, D.J. Circuit dynamics and coding strategies in rodent somatosensory cortex. *J. Neurophysiol.*, 83(2000):1158-1166.
- Brumberg, J.C.**, Nowak, L.G., McCormick, D.A. Ionic mechanisms underlying repetitive high frequency burst firing in cortical neurons. *J. Neurosci.*, 20(2000):4829-4843.
- Brumberg, J.C.** Firing pattern modulation by oscillatory input in supragranular pyramidal neurons. *Neuroscience*, 114(2002):239-246.
- Pinto, D.J, Hartings, J.A., **Brumberg, J.C.**, Simons, D.J. Cortical damping: An alternative role for recurrent excitation in thalamocortical circuits. *Cerebral Cortex*, 13(2003):33-44.
- Brumberg, J.C.**, Hamzei-Sichani, F., Yuste, R. Morphological and physiological characterization of layer 6 cortico-fugal neurons from mouse primary visual cortex. *J. Neurophysiol.*, 89(2003):2854-2867.
- Descalzo V.F., Nowak L.G., **Brumberg J.C.**, McCormick D.A., Sanchez-Vives, M.V. Slow adaptation in fast spiking neurons of visual cortex. *J. Neurophysiol.*, 93(2005):1111-1118.
- Rocco, M.M., **Brumberg, J.C.** The sensorimotor slice, *Journal of Neuroscience Methods*, 162(2007):139-147.
- McRae, P., Rocco, M. M., **Brumberg J.C.**, Mathews, R.T., Sensory Deprivation alters aggrecan expression and perineuronal net formation in the mouse barrel cortex. *Journal Neuroscience*. 27: 5405-5413, 2007.
- Ramos, R.L., Mosieff, A. **Brumberg, J.C.** Utility and versatility of extracellular recordings from the cockroach for

- neurophysiological instruction and demonstration. *Journal of Undergraduate Neuroscience Education*, 5(2007):A28-A34. {Editor's Choice Award, Outstanding Neuroscience Laboratory Article}
- Gutkin, B.S., **Brumberg, J.C.**, Cortical neurons as non-linear oscillators: Experiment and theory. *Brain Research*. 1171(2007):122-37.
- Ramos R.L., **Brumberg J.C.** Barrels XIX Meeting Report. *Somatosens Mot Res*. 24(2007):135-138.
- Ramos, R.L., Smith, P.T., **Brumberg, J.C.**, Novel *in silico* method for teaching cytoarchitecture, cellular diversity, and gene expression in the mammalian brain. *Journal of Undergraduate Neuroscience Education*, 6(2007): A8-A13.
- Ramos R.L., **Brumberg J.C.** Barrels by the sea: Barrels XX Meeting Report. *Somatosens Mot Res*. 25(2008):1-4.
- Ramos, R.L., Smith, P.T., DeCola, C., Tam, D., Corzo, O., **Brumberg, J.C.** Cytoarchitecture and transcriptional profiles of neocortical malformation in inbred mice. *Cerebral Cortex*, 18(2008):2614-2628.
- Ramos, R.L., Tam, D., **Brumberg, J.C.**, Physiology and morphology of callosal projection neurons in mouse, *Neuroscience*. 153(2008):654-63.
- Ramos R L, Smith P.T., Croll S.D., **Brumberg J.C.** Demonstrating Cerebral Vascular Networks: A Comparison of Methods for the Teaching Laboratory. *Journal of Undergraduate Neuroscience Education*, 6(2008):A52-A59. {Editor's Choice Award, Outstanding Neuroscience Laboratory Article}
- Chen, C-C, Abrams, S. Pinhas, A., **Brumberg J.C.** Morphological Heterogeneity of Layer VI Neurons in Mouse Barrel Cortex. *Journal of Comparative Neurology*, 512(2009):726-746.
- Chen, C-C, Steger, R., **Brumberg, J.C.** Barrels come of age: Barrels XXI meeting report. *Somatosens Mot Res*. 26 (2009) :25-30.
- Cao, R., Higashikubo B.T., Cardin, J., Knoblich, U., Ramos, R.L., Nelson, M.T., Moore, C.I., **Brumberg, J.C.** Pinacidil induces vascular dilation and hyperemia *in vivo* and does not impact biophysical properties of neurons and astrocytes *in vitro*. *Clev Clinic J Med*, 76(2009):S80-S85.
- Khatri V., Bermejo R., **Brumberg J.C.**, Keller A., Zeigler H.P. Whisking in air: encoding of kinematics by trigeminal ganglion neurons in awake rats. *J Neurophysiol*. 101(2009):1836-46.
- Radman, T, Ramos, R.L., **Brumberg, J.C.**, Bikson, M. Role of Cortical Cell Type and Morphology in Sub- and Suprathreshold Uniform Electric Field Stimulation, *Brain Stimulation*, 2(2009):215-228.
- Radman, T, Ramos, R.L., **Brumberg, J.C.**, Bikson, M. One-dimensional representation of a neuron in a uniform electric field, *Conf Proc IEEE Eng Med Biol Soc*. 1(2009):6481-4.
- Tlamsa A.P., **Brumberg, J.C.** Organization and Morphology of Thalamocortical Neurons of Mouse Ventral Lateral Thalamus. *Somatosensory and Motor Research*, 27(2010):34-43.
- Chen C-C, Durando A., **Brumberg J.C.** Barrels XXII Meeting Report: Barrels Blow into the Windy City, *Somatosensory and Motor Research*, 27(2010): 55–59.
- Khatri V., Bermejo R., **Brumberg J.C.**, Zeigler H.P. Whisking in air: encoding of kinematics by VPM neurons in awake rats. *Somatosensory and Motor Research*, 27(2010):111–120.
- Lipoff D.M., Bhambri A., Fokas G., Sharma S., Gabel L.A., **Brumberg J.C.**, Richfield, Ramos R.L. Molecular Layer Heterotopia in the Neocortex of the C57BL6 and Related Mouse Strains. *Brain Res*. 1391(2011):36-43. {Cover Article}
- Ramos R. L., Fokas G.J., Bhambri A., Smith P.T., Hallas B.H., **Brumberg J.C.** Undergraduate Neuroscience Education in the US: An analysis using data from the National Center for Education Statistics. *Journal of Undergraduate Neuroscience Education*, 9(2011):A66-A70..
- Dummula K., Vinukond G., Chu P., Xing Y., Hu F., Maik S., Csiszar A., Chua C., Mouton P., **Brumberg J.C.**, Bansal R., Ballabh P. Bone Morphogenetic Protein Inhibition Promotes Neurological Recovery after Intraventricular Hemorrhage. *J Neuroscience*. 31(2011):12068-12082.
- Zhang W., **Brumberg J.C.** Barrels XXIII Meeting Report: Barrels by the Shore, *Somatosensory and Motor Research*. 28(2011):11-8.
- Rocco-Donovan M., Ramos R.L, Giraldo S., **Brumberg J.C.** Characteristics of Synaptic Connections Between Rodent Primary Somatosensory and Motor Cortices, *Somatosensory and Motor Research*, 28 (2011):31-47.
- Chen C-C, Tam D, **Brumberg J.C.** Sensory Deprivation Differentially Impacts the Dendritic Development of Pyramidal Versus Non-Pyramidal Neurons in Layer VI of Mouse Barrel Cortex. *Brain Structure and Function*, 217(2012):435-46.
- Chen CC, Lu HC, **Brumberg J.C.** mGluR5 Knockout Mice Display Increased Dendritic Spine Densities. *Neurosci Lett*. 524(2012):65-8.

- Barrera K., Chu P., Abramowitz J.A., Steger R., Ramos R.L., **Brumberg J.C.** Organization of Myelin in the Mouse Somatosensory Barrel Cortex and the Effects of Sensory Deprivation. *Developmental Neurobiology*, 73(2013):297-314. {Cover Article}
- Steger R., Ramos R.L., Cao R., Yang Q., Chen C-C, Dominici J., **Brumberg J.C.** Physiology and morphology of inverted pyramidal neurons in the rodent neocortex. *Neuroscience*, 248(2013):165-179.
- Mangaru Z, Salem E, Sherman M, Van Dine SE, Bhambri A, **Brumberg J.C.**, Richfield EK, Gabel LA, Ramos RL. Neuronal migration defect of the developing cerebellar vermis in substrains of C57BL/6 mice: cytoarchitecture and prevalence of molecular layer heterotopia. *Dev Neurosci*. 35(2013):28-39. {Cover Article}
- Khan S., **Brumberg J.C.** An Inexpensive Fluorescent Graticule, *Microscopy Today*, 22(2014):26-27.
- Yang Q, Chen C-C, Ramos R.L., Katz, E., Keller, A., **Brumberg J.C.** Intrinsic Properties of and Synaptic Inputs onto Identified Corticothalamic-VPM Neurons, *Somatosensory and Motor Research*, 31(2014):78-93.
- Chu P, Chen CC, **Brumberg J.C.** An Ocean full of BARRELS: Barrels XXVI Meeting Report, *Somatosensory and Motor Research*, 31(2014):94-9.
- Orner D.A., Chen CC, Orner D.E., **Brumberg J.C.** Alterations of Dendritic Protrusions Over the Lifespan of a Mouse: An Analysis in Layer VI of the Barrel Cortex. *Brain Structure and Function*. 219(2014):1709-20.
- Chen CC, Bajnath A, **Brumberg J.C.** The Impact of Development and Sensory Deprivation on Dendritic Protrusions in the Mouse Barrel Cortex, *Cereb Cortex*. 25(2015):1638-53. {Cover Article, August Issue}
- Steger R., Kamal A., Lutchman S., Intrabartolo L., Sohail R., **Brumberg J.C.** Chronic caffeine ingestion causes microglia activation, but not proliferation in the healthy brain. *Brain Research Bulletin*, 106(2014):39-46.
- Bajnath A, Chu P, Steger R, **Brumberg J.C.** Barrels XXVII Meeting Report: Barrels in the Monument City. *Somatosensory and Motor Research*, 32(2015):177-82.
- Chu P, Peck J, **Brumberg J.C.** Exercises in Anatomy, Connectivity, and Morphology using Neuromorpho.org and the Allen Brain Atlas. *Journal of Undergraduate Neuroscience Education*. 13(2):A95-A100.
- Chen CC, Chu P, **Brumberg J.C.** Experience-Dependent Regulation Tissue-Type Plasminogen Activator in the Mouse Barrel Cortex. *Neuroscience Letters*. 599(2015):152-7.
- Chu P, Chen CC, Bajnath A, **Brumberg J.C.** Cell type specificity of tissue plasminogen activator in the mouse barrel cortex. *Data Brief*. 4(2015):332-5.
- Gour A, Lyall EH, Naka A, **Brumberg J.C.** Barrels XXVIII take the Windy City by storm. *Somatosens Mot Res*. 33(2016):61-6.
- Arshad A, Vose LR, Vinukonda G, Hu F, Yoshikawa K, Csiszar A, **Brumberg J.C.**, Ballabh P. Ganglionic eminence produces cortical interneurons during human gestation. *Cerebral Cortex*, 26(2016):2242-56.
- Evans MH, Brumberg J.C. Barrels XXIX: Barrels Go Hollywood. *Somatosens Mot Res*. 34(2017):58-64.
- Grisham W, **Brumberg J.C.**, Gilbert T, Lanyon L, Williams RW, Olivo R. Teaching with Big Data: Report from the 2016 Society for Neuroscience Teaching Workshop. *The Journal of Undergraduate Neuroscience Education*, 16(2017):A68-A76.
- Steger R, Blachorsky L, **Brumberg J.C.** Synaptic Properties of Layer VI Inverted Pyramidal Cells in the Rodent Somatosensory Cortex. *Somatosensory and Motor Research*, 35(2018):33-44.
- Shin H, Bitzidou M, Palaguachi F, **Brumberg J.C.** Barrels XXX Meeting Report: Barrels in Baltimore. *In Press. Somatosensory and Motor Research*, 35(2018):52-57.
- Chu P, Abraham R, Kahn U, De Marco Garcia N, **Brumberg J.C.** Perineuronal nets regulate the intrinsic physiology of neurons in a cell type specific manner. *Neuroscience*, 388 (2018):23-35.
- Barrientos AC, Cataldo G, **Brumberg J.C.** Barrels XXXI comes to the inland empire. *Somatosens Mot Res*. 36(2019):78-84.
- Dana K, Finik J, Koenig S, Motter J, Zhang W, Linaris M, **Brumberg J.C.**, Nomura Y. Prenatal Exposure to Famine and Risk for Development of Psychopathology in Adulthood: A Meta-Analysis. *J Psychiatry Psychiatr Disord*. 3(2019):227-240.
- Kalambogias J, Chen C-C, Khan S, Son T, Werberger R, Headlam C, Lin C, **Brumberg J.C.** Development and Sensory Experience Dependent Regulation of Microglia in Barrel Cortex. *Journal of Comparative Neurology*. 528 (2020):550-573. {Cover Article}
- Brumberg J.C.**, Gray AC. Interdisciplinary Education: The Advanced Science Research Center. *iScience*. 23(2020):100822.
- Cataldo G, Chen CC, Barrientos AC, **Brumberg J.C.** Barrels XXXII meeting report: whiskers in the windy city. *Somatosens Mot Res*. 11 (2020):1-9.

Invited Talks:

- 1997 Essel Neuroscience Conference, Williams College, Williamstown, MA.
- 1998 Department of Physiology, Ben Gurion University, Beer Sheva, Israel.
- 1999 Section of Neurobiology, Yale University School of Medicine, New Haven, CT.
- 2000 Department of Psychology, University of Connecticut, Storrs, CT.
 Unite de Neurosciences Integratives et Computationelles, Institut Alfred Fessard, Gif-sur-Yvette, France.
- 2001 Seminar in Neurobiology and Behavior, Columbia University Medical Center, New York, NY.
 Primate Research Center, Oregon Health Sciences University, Beaverton, OR.
 Department of Neurobiology & Anatomy, Wake Forest University, Winston Salem, NC.
 Computational Neuroscience Forum, New York University, NY, NY.
 Department of Basic Medical Sciences, Purdue University, West Lafayette, IN.
 Department of Pharmacology and Physiology, University of South Carolina Medical School, Columbia, SC.
- 2002 Department of Neuroscience, Brown University, Providence, RI.
 Department of Pharmacology and Physiology, MCP-Hahnemann University, Philadelphia, PA.
 Department of Biology, Marquette University, Milwaukee, WI.
 Department of Biology, City College of New York, NY, NY.
 Department of Psychology, Queens College, Flushing, NY.
 Neuropsychology Seminar, Queens College, Flushing, NY.
 Discussant, Barrels XV, session on "Function and plasticity in adult barrel cortex", Cocoa Beach, FL.
- 2003 Neuroscience Program, St. Lawrence University, Canton, NY.
 Neuropsychology Research Day, Queens College, Flushing, NY.
 Center for the Neural Basis of Cognition, University of Pittsburgh and Carnegie Mellon University, Pittsburgh, PA.
- 2004 Department of Cell Biology and Anatomy, New York Medical College, Valhalla, NY.
- 2005 Computational Neuroscience Forum, New York University, NY, NY.
 Biopsychology Program, Hunter College, NY, NY.
- 2006 Brain Awareness Week Speaker, Department of Psychology, St. John's University, Queens, NY.
 Department of Brain and Cognitive Science, Massachusetts Institute of Technology, Cambridge, MA.
 Math Biology Seminar, New Jersey Institute of Technology, Newark, NJ.
- 2007 Department of Biomedical Engineering, City College of New York, New York, NY.
 Keynote Speaker, Essel Neuroscience Conference, Williams College, Williamstown, MA.
- 2008 Keynote Speaker 18th Annual Manhattanville College Annual Science Competition, Purchase, NY.
- 2009 Department of Physiology and Pharmacology, Sophie Davis School of Biomedical Sciences, New York, NY.
- 2010 Institute for Biomedical Research, Staten Island, NY.
- 2011 Department of Cell Biology, Tulane University, New Orleans, LA.
- 2012 Department of Biology, Brooklyn College, CUNY, Brooklyn, NY.
 Krasnow Institute for Advanced Study, George Mason University, Fairfax, VA.
- 2013 Departments of Neurology and Neurosurgery, New York Medical College, Valhalla, NY.
- 2014 Department of Neuroscience, University of Connecticut School of Medicine, Farmington, CT.
 Department of Psychology, Pace University, Pleasantville, NY.
- 2015 Department of Neurobiology, University of Pittsburgh, Pittsburgh, PA.
 Department of Cell Biology, New York Medical College, Valhalla, NY
 Sigma Xi, Queens College, CUNY, Flushing, NY.
 Department of Molecular and Cell Biology, UC Santa Cruz, Santa Cruz, CA
- 2016 MiNDS Graduate Colloquium, McMaster's University, Hamilton, Ontario, Canada
 Society for Neuroscience, San Diego, CA
- 2017 Department of Biology, Medgar Evers College, CUNY, Brooklyn, NY
 Department of Biology, Trinity College, Hartford, CT
 Department of Biomedical Engineering, Columbia University, NY, NY
- 2018 Department of Biology, College of Staten Island, CUNY, Staten Island, NY.
- 2019 Department of Psychology, Queens College, CUNY
- 2020 Masters in Behavioral Neuroscience, Queens College, CUNY
- 2021 Neuroscience Colloquium, University of California, Riverside

Teaching Experience

- 2003-2005, 2009-2014 Instructor, Advanced Physiological Psychology: Sensation and Perception, Psychology 710, Neuropsychology Ph.D. Sub-program (Psychology), Queens College, Flushing, NY.
- 2003-2015 Instructor, Neurophysiology, Psychology 708.2, Neuropsychology Ph.D. Sub-program (Psychology), Queens College, Flushing, NY.
- 2002-2012 Guest Lecturer, Neuroscience 1, Neuroscience Ph.D. Sub-program (Biology), Graduate Center, CUNY, New York, NY.
- 2006-2009 Instructor and Course Developer Advanced Experimental Psychology: Neurobiology Laboratory, Psychology 316/Biology 384.1, Queens College, Flushing, NY.
- 2008-2011 Lecturer Medical Neuroscience, Sophie Davis School of Biomedical Education, NY, NY.
- 2003, 2013 Guest Lecturer, Neuroscience 2, Neuroscience Ph.D. Sub-program (Biology), Graduate Center, CUNY, New York, NY.
- 2002 Instructor, Behavioral Neuroscience, Psychology 243, Department of Psychology, Queens College, Flushing, NY.
- 2001 Leader of Summer Undergraduate Research Fellow (SURF) discussion group, Columbia University, New York, NY.
- 2001 Lecturer, Neurobiology I: Development and Function of the Brain (catalog# W3004), Department of Biological Sciences, Columbia University, New York, NY.
- 2000 Instructor, Neurobiology II: Development and Function of the Brain (catalog# W3005), Department of Biological Sciences, Columbia University, New York, NY.
- 1999-2000 Neuroanatomy Instructor, Clinical Case Conference leader, Neuroscience 500b, Yale University School of Medicine, New Haven, CT.
- 2000 Guest Lecturer, Physiology & Biochemistry (Neurophysiology), PA students, Yale University School of Medicine, New Haven, CT.
- 1998- 2000 Fifth and Second grade science advisor, Mauro Elementary School, New Haven, CT.
- 1998 **Brumberg, J.C.**, "My experience as a science mentor," *CPEP Journal*, 12 (1999):1,3.
- 1998 Neuroanatomy Teaching Assistant, Neuroscience 500b, Yale University School of Medicine, New Haven, CT.
- 1997 Guest Lecturer, Cortical Circuits, Yale University School of Medicine, New Haven, CT.
- 1996 Problem Based Learning Facilitator, Medical Neuroscience, University of Pittsburgh School of Medicine, Pittsburgh, PA.
- 1994-1996 Neuroanatomy Teaching Fellow, Medical Neuroscience, University of Pittsburgh School of Medicine, Pittsburgh, PA.
- 1994-1995 Facilitator, Neural Processes and Cognition Summer Undergraduate Journal Club, University of Pittsburgh and Carnegie Mellon University, Pittsburgh, PA.
- 1995 Lecturer, Neuroscience 706, Physical and Occupational Therapy Programs, Chatham College, Pittsburgh, PA.
- 1995 Lecturer, Neuroscience 0030 Brain and Behavior, Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA.

Ad-hoc reviewer: **Journals:** ACTA Neurobiologiae Experimentalis, Brain Research, Brain Research Bulletin, Canadian Journal of Zoology, Cerebral Cortex, European Journal of Biophysics, European Journal of Neuroscience, eNeuro, Frontiers in Behavioral Neuroscience, Frontiers in Cellular Neuroscience, Frontiers in Neural Circuits, IBRO Reports, International Journal of Developmental Neuroscience, Journal of Comparative Neurology, Journal of Experimental Biology, Journal of Neurophysiology, Journal of Neuroscience, Journal of Neuroscience Methods, Journal of the Neurological Sciences, Journal of Undergraduate Neuroscience Education, Journal of Visual Experiments, Neurological Research, Nature Communications, Neurophotonics, Neuroscience & Biobehavioral Reviews, Neuroscience Letters, PLOS Computational Biology, PLOS One, Scientific Reports, Somatosensory and Motor Research

Reviewing Editor: Frontiers in Behavioral Neuroscience (2014-present)

Publishers: Brooks/Cole Publishers, SAGE Publishers, Sinauer Publishers, Oxford University Press, Cambridge University Press

Grants: Binational US-Israel Science Foundation, CUNY-Collaborative Research Grants, Doctoral Student Council Graduate Student Research Grants (CUNY), European Commission, Foundation Lenards, National Institutes of Health (18 times ad-hoc study section member F20B, 3x ad hoc panel member SMI, special emphasis panel, 3x R13, 2x ad-hoc U19 Brain Project), ad-hoc NIMH Board of Scientific Counselors, National Science Foundation (ad-hoc and twice panel member, NSFGRFP panel), Human Frontiers Science Project, PSC-CUNY Research Grants, Dutch Research Council, Israeli Science Foundation.

Membership in Scientific Societies: Sigma Xi (since 1992)
Society for Neuroscience (since 1993)
NY Academy of Sciences (since 2003)
Faculty for Undergraduate Neuroscience (since 2003)
America Physiological Society (since 2011)

Committees/ Service:

2019-present	CUNY Council for Academic Research Success, member
2019-present	CUNY Health Council, member
2019	NIMH Board of Scientific Counselors, ad-hoc member
2020-present	CUNY Connect and Pivot Initiative, CUNY Office of Research, participant
2017-present	Middle States Accreditation Steering Committee, member and working group co-chair
2015-present	Research Committee, The Graduate Center, Co-chair
2018-present	CUNY Animal Advisory Board, member
2003-present	Chair, Organizing Committee, Barrels Meeting, International Scientific Meeting
2020	NIH R13 and U10 study section, ad-hoc member
2019	NIMH Board of Scientific Counselor, ad- hoc member
2018	NIH R13 study section, ad-hoc member
2018	CUNY Associate Vice Chancellor for Research, Search Committee
2017, 2018	NIH SMI study section ad-hoc member.
2016	NIH Special emphasis panel
2016	Ad-hoc member NIH F20B Study Section (March meeting).
2015-2019	CUNY Bench Science Advisory Committee
2015-2016	Strategic Planning – Programs and Research Sub-Committees, The Graduate Center, CUNY, member
2015	Ad-hoc member NIH F20B Study Section (February meeting)
2014-2015	Chair, Division of Mathematics and Natural Sciences Dean Search Committee, Queens College, CUNY
2014-2015	Acting Executive Officer, Psychology, The Graduate Center, CUNY
2014	Ad-hoc member NIH F20B Study Section (June, October meetings)

2014 Queens College Presidential Search, Faculty Committee, co-chair

2012-2015 Biology PhD program faculty review committee, The Graduate Center, CUNY

2013 Ad-hoc member NIH F20B Study Section (June, Oct meetings)

2013-2015 President Queens College, CUNY, Sigma Xi Chapter (Vice President 2012-2013).

2012-2014 Director, PhD programs in Brain, Behavior and Cognition, The Graduate Center, CUNY.
Deputy Director, Undergraduate Neuroscience Major, Queens College, CUNY.

2012-2013 Chair, Behavioral Neuroscience Search Committee, Department of Psychology, Queens College, CUNY.

2006-2015 CUNY PhD Science Programs at Queens College Committee, Queens College, CUNY.
Department of Psychology, Queens College, CUNY, Personnel and Budget Committee.

2005-2015 University Neuroscience Ph.D. program committee, The Graduate Center, CUNY.

2012 Ad-hoc member NIH F20B Study Section (February, June meetings)

2011 Ad-hoc member NIH F20B Study Section (February, October meetings)

2010 Ad-hoc member NIH F20B Study Section (February, June and October meetings)

2009 Dean of Mathematics and Natural Sciences Search Committee, Queens College, CUNY.

2009 Ad-hoc member NIH F20B Study Section (February, June and October meetings)

2007 Panel member, NSF Activation Proposal Review Panel for the Neural Systems Cluster, Arlington, VA.

2005-2012 Program Head Neuropsychology Ph.D. Subprogram (Psychology), The Graduate Center, CUNY.

2005-2006 Department of Psychology Faculty Search Committee: Neuroscientist/Neuropsychologist, Queens College, CUNY.
Department of Psychology Faculty Search Committee: Clinical Director, Queens College, CUNY.

2004-2009 Division of Mathematics and Natural Sciences, Howard Hughes Medical Institute Steering Committee, Queens College, CUNY.
Board of Directors, Queens College, Neuroscience Research Center.

2003-2010 Founder/Organizer Neuropsychology Research Day, Queens College, CUNY.
Organizer Neuropsychology Colloquia Series, Queens College, CUNY.

2003-2008 Department of Psychology Interdisciplinary Major Advisor, Queens College, CUNY.
Core Facility in Cell Imaging, steering committee, Queens College, CUNY.

2003-2004 Division of Mathematics and Natural Sciences, Howard Hughes Medical Institute Grant Writing Committee, Queens College, CUNY.
Department of Psychology Faculty Search Committee: Behavioral Neuroscientist, Queens College, CUNY.

2002-2006 Department of Psychology web site committee, Queens College, CUNY.
Neuropsychology Ph.D. Subprogram, Basic Science Track Committee, Queens College, CUNY.

2001-2002 Co-organizer weekly Neurolunch seminar series, Department of Biological Sciences, Columbia University, New York, NY.

1998-2000 Assisted in organizing monthly *Club Neurobiology* seminar series, Yale University School of Medicine, New Haven, CT.

1996 Curriculum Committee (Graduate programs), University of Pittsburgh School of Medicine.

1994-1997 Co-Chair for Undergraduate admissions for Williams College in Western PA.

1994 Curriculum Review Committee (Graduate programs), University of Pittsburgh School of Medicine.

1994-1995 Graduate student Representative, LCME Self-Study Task Force, University of Pittsburgh School of Medicine.

1993-1996 Neural Processes in Cognition Colloquia Committee, Organizer bi-monthly Brain-bag series, University of Pittsburgh, Carnegie Mellon University, Pittsburgh, PA.

1993-1995 Graduate student Representative, Graduate Council University of Pittsburgh School of Medicine.

1993-1995 President, Biomedical Graduate Student Association, University of Pittsburgh School of Medicine.

1991-1992 Member At-large, Student Government, Williams College, Williamstown, MA.

1989-1990 Committee for Educational Policy, Williams College, Williamstown, MA.