

CORTICAL SYSTEMS^{AND} BEHAVIOR LABORATORY

UNIVERSITY OF CALIFORNIA, SAN DIEGO

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Education & Training.

BA --- University of Colorado at Boulder [1994 - 1998]

PhD --- Harvard University [1999 - 2003]

Post-Doctoral Fellow --- Johns Hopkins University [2003 - 2009]

Academic Positions.

2023 – current | Professor, Department of Psychology, UC San Diego

2016 – 2023 | Associate Professor, Department of Psychology, UC San Diego

2009 – 2016 | Assistant Professor, Department of Psychology, UC San Diego

2009 – current | Neurosciences Graduate Program, UC San Diego

Field Work.

1995 - La Suerte Biological Field Station, Costa Rica : Capuchins : *Cebus capucinus*

1996 - Betumonga Research Station, Indonesia : Simakobu Monkeys : *Simias concolor*

1997-2003 - Cayo Santiago, Puerto Rico : Rhesus Monkeys : *Macaca mulatta*

2000 - Farley Hills, Barbados : Vervet Monkeys : *Cercopithecus aethiops*

2000 - Lake Nabugabo, Uganda : Vervet Monkeys : *Cercopithecus aethiops*

2000 - Kousseri, Cameroon : Vervet Monkeys : *Cercopithecus aethiops*

2002 - Soberania National Park, Panama : Cotton-top Tamarins : *Saguinus oedipus*

2010 – ongoing – Recife, Brazil: Common Marmosets : *Callithrix jacchus*

Extramural Funding.

Current

2012-2028 – NIH R01 DC012087

- Role. PI
- Title. Neural basis of vocal signal recognition during natural communication

2020-2026 – NIH R01 NS118457

- Role. PI
- Title. Spatial exploration and navigation in the primate hippocampus

2020-2030 – NIH U24 MH123423

- Role. MPI [PI - Wang]
- Title. Bicoastal Marmoset Breeding Center

2025-2030 – NIH U01 MH139778

- Role. Co-I
- Title. Enhancer AAV toolbox for cell classes and subclasses in the brains of mouse, macaque and marmoset

Prior

2000 - Explorers Club

- Role. PI
 - Title. Vocal communication in Ugandan vervet monkeys
- 2001-2004 - NIH - F31 MH63501
- Role. PI
 - Title. Sources of variation in primate vocal behavior
- 2004-2006 - NIH - F32 DC007022
- Role. PI
 - Title. Neuroethology of call recognition in primates.
- 2005 - National Organization for Hearing Research Foundation
- Role. PI
 - Title. The functional anatomy of communication signal processing in primate neocortex.
- 2006-2009 - NIH - R03 DC008404
- Role. PI
 - Title. The neural correlates of antiphonal calling
- 2007-2012 – NIH – K99/R00 DC009007
- Role. PI
 - Title. Cortical mechanisms underlying vocal signal recognition
- 2012-2013 – Kavli Innovative Research Grant
- Role. Co-PI [PI – Jude Mitchell]
 - Title. Developing marmosets as a model for visual neuroscience and optogenetics research
- 2014-2016 – NIH R21 MH104756
- Role. Co-PI [PI – Jude Mitchell]
 - Title. Optogenetic tools to distinguish neuronal class in behaving nonhuman primates
- 2015-2016 – Kavli Innovative Research Grant
- Role. Co-PI [PI – Samuel Nummela]
 - Title. Reconciling mnemonic and spatial memory in the marmoset hippocampus
- 2013-2017 – NSF - IDBR 1254309
- Role. Co-PI [PI – Ross Snider]
 - Title. A measurement system for behavioral and acoustic communication networks in wild vertebrates
- 2016 – NSF
- Role. PI
 - Title. Conference Grant: Comparative Principles of Brain Architecture and Function
- 2017-2019 – DARPA SSC-5029
- Role. Co-PI [PI: Xiaoqin Wang]
 - Title. Targeted Neuroplasticity Training
- 2019-2022 – AFOSR 19RT0316
- Role. Co-PI [PI - Alex Huk]
 - Title. Visually-guided primate predation: A computational neuroethology of visual search and targeting in a complex, natural environment
- 2020-2023 – NIH UF1 NS116377
- Role. MPI [PI – Alex Huk]
 - Title. Neural circuit computations for visual motion during natural primate behaviors.
- 2021-2024 – NIH UF1 MH1238336
- Role. Co-I [PI - Gradinaru]
 - Title. Engineered AAV Identification, Validation and Dissemination Pipeline for Brain Cell Type-Specific Manipulation Across Species
- 2018-2024 – NIH R01 NS109294
- Role. PI
 - Title. Neural basis of memory in primate medial temporal lobe

Honors and Awards.

2024 – Cajal Club Krieg Cortical Explorers Award
 2024 - Neal Miller Memorial Lectureship, Department of Psychology, Yale University
 2002 - Harvard University Certificate of Distinguished Teaching

2001 - Harvard University Certificate of Distinguished Teaching
1999 - NSF Graduate Fellowship - Honorable Mention

Teaching.

University of Colorado at Boulder

- Undergraduate Teaching Assistant – “Animal Behavior” (1998)

Harvard University

- Teaching Fellow – “Human Behavioral Biology” (2000); “Perception: Taste, Touch and Sound” (2001); “Cognitive Psychology” (2001); “Animal Cognition Laboratory” (2002)

Assistant Head Teaching Fellow – “Evolution of Human Nature” (2002)

- Instructor – “Neuroethology” (2003)

University of California, San Diego

PSY122 ‘Mechanisms of Behavior’ (2010-2017)

Neuro200c ‘Cognitive Neuroscience’ (2013-present)

PSY240 ‘The Primate Brain’ (2009,2012)

PSY234 ‘Evolution of Language’ (2011)

PSY81 ‘Lab: Brain, Behavior and Evolution’ (2018-present)

Invited Talks.

2001 - Japanese Primate Research Institute (Inuyama, Japan)

2002 - Yale University, Dept of Psychology (New Haven, CT)

2002 - Johns Hopkins University, Dept of Biomedical Engineering (Baltimore, MD)

2004 - National Institute of Health (Poolesville, MD)

2005 - Max Planck Institute (Leipzig, Germany)

2005 – Advances and Perspectives in Auditory Neurophysiology (Washington, DC)

2006 - Gordon Conf: Sensory Coding and the Natural Environment (Big Sky Resort, MT)

2007 - Dartmouth College, Dept of Psychology (New Hanover, NH)

2007 - Emory University, Dept of Psychology (Atlanta, GA)

2008 - Rutgers University, Dept of Psychology (New Brunswick, NJ)

2008 - University of California, San Diego, Dept of Psychology (La Jolla, CA)

2009 – University of Oslo, ‘Darwin Day Symposium’ (Oslo, Norway)

2011 – Princeton University, Face-to-Face, Brain-to-Brain Workshop (Princeton, NJ)

2012 – University of California, San Diego; Neuroscience Seminar Series (La Jolla, CA)

2013 – University of Texas at Austin; Center for Perceptual Systems Seminar (Austin, TX)

2014 – University of Pittsburgh; Dept of Neurobiology (Pittsburgh, PA)

2015 – University of Oregon; Institute of Neuroscience (Eugene, OR)

2015 – ‘Marmoset as a Transgenic Model of the Human Brain’ Workshop; Janelia Farm (Ashburn, VA)

2015 – Johns Hopkins University; Mind/Brain Institute, Dept of Neuroscience (Baltimore, MD)

2015 – Comparative Neural Circuits Workshop (Jackson Hole, WY)

2015 – Primate Neuroscience Workshop (Beijing, China)

2016 – Vanderbilt University, Dept of Psychological Sciences (Nashville, TN)

2016 – Duke University, Dept of Neurobiology (Durham, NC)

2016 – University of California, Berkeley; Cognitive & Behavioral Neuro Colloquium (Berkeley, CA)

2016 – ‘Comparative Principles of Brain Architecture and Function’ Workshop (San Diego, CA)

2016 – BRAIN/Minds International Symposium (Tokyo, Japan)

2017 – ‘Primate Neuroscience: Perception, Cognition and Disease Models’ Symposium (Suzhou, China)

2017 – 4th International Symposium on Acoustic Communication in Animals (Omaha, NE)

2017 – University of Toronto, CPIN Neuroscience Distinguished Lectureship Series (Toronto, CA)

2018 – La Timone Neuroscience Institute Workshop (Marseille, France).

2019 – University of Pittsburgh, Dept of Neurobiology (Pittsburgh, PA)

2019 – University of Massachusetts Amherst, Neuroscience & Behavior Colloquium Series (Amherst, MA)

2020 – iNav – International Navigation Symposium (Cortina, Italy) – *Virtual meeting due to Covid-19*

2020 – NIH BRAIN Initiative Investigators Meeting – *Virtual meeting due to Covid-19*

2020 – McGill University, Neuroscience for Mental Health Seminar (Montreal, Canada) – *Virtual Seminar due to Covid-19*

2020 – University of Newcastle (Newcastle, UK) – *Virtual Seminar due to Covid-19*

2022 – NIH BRAIN Initiative - Brain and Behavioral Quantification and Synchronization Workshop – Virtual Meeting
 2022 - La Timone Neuroscience Institute Workshop (Marseille, France)
 2022 – 2nd Beijing Brain Conference (Beijing) – Virtual Talk
 2022 – Vertebrate Sensory Systems, Keystone Symposia (Tahoe, CA)
 2022 – Society for Social Neuroscience (San Diego, CA)
 2023 – University of California Berkeley (Berkeley, CA)
 2023 – Gordon Research Conference: Neuroethology (Mt Snow, VT)
 2023 – Cajal Club ‘Structure, Function and Development of Neural Circuits’ (National Academy of Sciences; Irvine, CA).
 2023 – University of Arizona, Neuroscience Seminar Series (Tucson, AZ)
 2024 – Hong Kong University of Science & Technology NHP Conference (Hong Kong)
 2024 – Yale University, Neal Miller Memorial Lecture (New Haven, CT)
 2024 – Gordon Research Conference: Neural Mechanisms of Acoustic Communication (Sunday River, ME)
 2024 – University of California, Davis – CNS Seminar (Davis, CA)
 2024 – Gordon Research Conference: Neurobiology of Cognition (Waterville Valley, NH)
 2025 – UCLA Learning & Memory Symposium (Los Angeles, CA)
 2025 – University of Pennsylvania – Computational Neuroscience Seminar (Philadelphia, PA)
 2025 – Emory University: Department of Psychology Colloquium (Atlanta, GA)
 2025 – Institut des Sciences Cognitive Marc Jeannerod, CNRS (Lyon, France)
 2025 – EU-Simia (Paris, France)
 2025 – JST-CREST Neuroscience Technology Workshop (San Diego, CA)
 2026 – Western University (Ontario, Canada)
 2026 – University of Colorado at Boulder – Psychology and Neuroscience Colloquium (Boulder, CO)
 2026 – Institute of Neuroscience (ION), Chinese Academy of Science (Shanghai China)
 2026 – Zhejiang University (Hangzhou China)
 2026 – Workshop on Primate Neuroethology (Sicily, Italy)
 2026 – Gordon Research Conference: Neurobiology of Cognition (Waterville Valley, NH)
 2026 – The Simian Collective (Pittsburgh, PA)

Professional Service.

The Simian Collective

Founder w/Michele A Basso and Sliman Bensmaia

Society for Neuroscience

Committee on Animal Research (CAR) – Member 2024-2027

Ad Hoc Reviewer: Journals.

American Journal of Primatology; Animal Behaviour; Animal Cognition; Behaviour; Bioacoustics; Brain, Behavior and Evolution;
 Cell Reports; Cerebral Cortex; Cognition; Current Biology; Ethology; eLife; Experimental Brain Research; European Journal of
 Neuroscience; Infancy; Interaction Studies: Social Behaviour and Communication in Biological and Artificial Systems; JoVE;
 Journal of the Acoustical Society of America; Journal of Ethology; Journal of Neurophysiology; Journal of Neuroscience; Journal
 of Neuroscience Methods; Journal of Zoology; Nature; Nature Communications; Nature Neuroscience; Neuron; PLoS One;
 Primates; Proceedings of the National Academy of Sciences; Proceedings of the Royal Society, B; Science; Scientific Reports

Editorial Board.

Developmental Neurobiology – 2017-current.

Invited Panelist.

NIH Office of the Director Workshop. ‘Challenges in Assessing Nonhuman Primate (NHP) Needs and Resources for Biomedical Research’ [August 2018; Bethesda, MD]

Conference Organizer.

2010 – NeuroCog – Bocas del Toro, Panama
 - Organizer (w/Laurie Santos)
 2012 - NeuroCog – Nosara, Costa Rica

- Organizer (w/John Serences)
- 2013-2015 - Advances and Perspectives in Auditory Neuroscience [APAN] SFN Presymposium
 - Programming Committee
- 2014 - NeuroCog – Coffs Coast, Australia
 - Organizer (w/John Serences)
- 2015 – Comparative Neural Circuits– Jackson Hole, WY
 - Organizer (w/Jude Mitchell & David Leopold)
- 2016 - NeuroCog – Nosara, Costa Rica
 - Organizer (w/John Serences)
- 2016 – NSF Workshop: Comparative Principles of Brain Architecture and Function – San Diego, CA
 - Organizer (w/ Melina Hale, Partha Mitra, Hideyuki Okano, Shigeo Okabe)
- 2018 – 1st Biannual Marmoset PI Meeting – Boulder, CO
 - Organizer (w/ Kuo-Fen Lee)
- 2019 – 1st Marmoset Bioscience Symposium (Chicago, IL)
 - Organizer (w/Kuo-Fen Lee)
- 2019 –Simian Collective: Southern California (UC Los Angeles)
 - Organizer (w/Michelle Basso)
- 2020 – Computational Neuroethology Symposium – Grand Tetons NP, WY [Held as Virtual meeting due to Covid]
 - Organizer (w/Cris Neill)
- 2020 – 2nd Biannual Marmoset PI Meeting – Held as Virtual meeting due to Covid
 - Organizer (w/ Kuo-Fen Lee)
- 2020 – 2nd Marmoset Bioscience Symposium - Held as Virtual meeting due to Covid
 - Organizer (w/Kuo-Fen Lee & Yogita Chudasama)
- 2020 –Simian Collective: California (UC San Diego) [Cancelled due to Covid]
 - Organizer (w/Michelle Basso)
- 2021 – Society for Neuroscience Minisymposium (Washington, DC)
 - *Rodents and monkeys: The two dominant mammalian models and their respective contributions to neuroscience*
 - Organizer (w/Michele Basso)
- 2021 – Computational Neuroethology Symposium – Teton Village, WY
 - Organizer (w/Cris Neill)
- 2022 – 3rd Biannual Marmoset PI Meeting – Boulder, CO
 - Organizer (w/ Kuo-Fen Lee)
- 2022 – Simian Collective (La Jolla, CA)
 - Organizer (w/Michelle Basso, Sliman Bensmaia, Sabine Kastner)
- 2022 – 3rd Marmoset Bioscience Symposium (San Diego, CA)
 - Organizer (w/Kuo-Fen Lee & Yogita Chudasama)
- 2023 – Simian Collective (Chicago, IL)
 - Organizer (w/Michelle Basso, Sliman Bensmaia)
- 2023 – Natural Behaviors, Brains and Computations – Grand Tetons National Park, WY
 - Organizer (w/Cris Neill)
- 2023 – 4th Marmoset Bioscience Symposium (Washington, DC)
 - Organizer (w/Kuo-Fen Lee & Yogita Chudasama)
- 2024 – 4th Biannual Marmoset PI Meeting – Boulder, CO
 - Organizer (w/ Kuo-Fen Lee)
- 2024 – Simian Collective (Pittsburgh, PA)
 - Organizer (w/Michelle Basso, Aaron Batista)
- 2025 – Natural Behaviors, Brains and Computations – Grand Tetons National Park, WY
 - Organizer (w/Cris Neill)

Publications.

Published

Science Advocacy Commentaries and Op-Eds

- Miller CT. 2025. America's risky retreat in biomedical leadership. *National Review*, <https://www.nationalreview.com/2025/12/americas-risky-retreat-in-biomedical-leadership/>
- Miller, CT.; Basso, MA; Batista, AP; Gothard KM; Parker KJ; Tsao DY; Williams ZM & Platt ML. 2025. Science Must Break Its Silence to Rebuild Public Trust. *Nature Neuroscience*. 28, 2169-2170.
- Miller CT; Movshon T; Tsao D. Without monkeys, neuroscience has no future. *The Transmitter*, <https://doi.org/10.53053/zcod8622>
 - Recipient: AZBEES Awards of Excellence – Silver Thought Leadership Award
- Miller CT. 2025. The future of AI lies in monkeys, not microchips. *The Wall Street Journal* https://www.wsj.com/opinion/the-future-of-ai-lies-in-monkeys-not-microchips-c855aad6?mod=hp_opin_pos_3
- Related Media: https://moringanswerchicago.com/tragic-ai-linked-deaths-raise-alarming-questions-about-chatbots/#google_vignette
- Miller CT. 2025. Plan to restructure the NIH would stall science, not streamline it. *The Hill*. <https://thehill.com/opinion/healthcare/5322143-nihs-reorganization-threats-science/>
- Miller, CT*; Chen, X; Donaldson, Z; Jones-Marlin, B; Williams, Z; Zeilikowsky, M; Zeng, H. and Hong, W*. 2024. The BRAIN Initiative: A Pioneering Program on the Precipice. *Nature Neuroscience*. 27, 2264-2266 *equal contributions
- Basso, MA; Batista, A; Chang S; Gothard, K; Miller, CT; Parker, K; Zimmerman J. 2024. The future of nonhuman primate neuroscience: Peril or Possibilities? *Journal of Neuroscience*, 44(37): e1458242024.
- Maciejewski, EC; Basso, MA; Miller CT and Bailey, MR. 2023. The ethics of animal research and testing: A US Perspective. *Drug Discovery Today*. 28(6):103545.

Peer-Reviewed

- Li, J; Singh, VP; Mitchell J; Huk A. & Miller CT. 2027. Active gaze behavior organizes V1 activity in freely-moving marmosets. In Revision
- Lefevre, A; Singh, VP; Tyree, T; Li, J; Duhamel, JR & Miller CT. 2027. Anterior cingulate cortex neurons parse speakers in a natural 'cocktail party'. In Revision
- Mysorekar AR, Vispute A & Miller CT. 2026. Ecological factors affecting prosociality in marmoset monkeys. *Animal Cognition* 29, 27 <https://doi.org/10.1007/s10071-026-02049-1>
- Miller CT. 2026. Social Models. *Evolution of Nervous Systems* (3rd ed.). 2, 298-306 <https://doi.org/10.1016/B978-0-443-27380-3.00018-X>
- Singh VP; Li, J; Dawson, K; Mitchell, JF; & Miller CT. 2025. Active vision in freely-moving marmosets using head-mounted eye tracking. *Proceedings of the National Academy of Sciences*, 122, e2412964122
- Li, J; Aoi, M; Miller CT. 2024. Representing the dynamics of natural marmoset vocal behaviors in frontal cortex. *Neuron*. 112, 3542-3550.
- Grijseels, DM; Fairbank, DF; Miller CT. 2024. A model of marmoset monkey vocal turn-taking. *Proceedings of the Royal Society, B*. 291, 20240150.
- Lefevre, A.; Mesa, J. & Miller CT. 2024. Long range projections of Oxytocin neurons in the marmoset brain. *Journal of Neuroendocrinology*: 36, e13397.
- Mitchell, JM; Wang K.H.; Batista, AP & Miller, CT. 2024. Ethologically motivated approaches to the neurobiology of primate visually guided reach-to-grasp behavior. *Current Opinion in Neurobiology*. 86:102872.
- Tyree, T; Metke, M; & Miller, C.T. 2023. Cross-modal representation of identity in the primate hippocampus. *Science*. 382, 417-423.
- Grijseels, DM; Prendergast, B; Gorman, J & Miller CT. 2023. The neurobiology of marmoset vocal communication. *Annals of the New York Academy of Sciences*. 1528, 13-28.
- Chuapoco, M; Flytzanis, N; Goeden, N; Oceau, J; Roxas, K; Chan, K; Scherrer, J; Winchester, J; Blackburn, R; Campos, L; Man, K; Sun, J; Chen, X; Lefevre, A; Pal Singh, V; Arokiaraj, C; Shay, T; Vendemiatti, J; Jang, M; Mich, J; Bishaw, Y; Gore, B; Omstead, V; Taskin, N; Weed, N; Levi, B; Ting, J; Miller, CT; Deverman, B; Pickel, J; Tian, L; Fox, A & Gradinaru, V. 2023. Adeno-associated viral vectors for functional intravenous gene transfer throughout the nonhuman primate brain. *Nature Nanotechnology*. 18, 1241-1251.
- Chen, X; Wolfe, D; Bindu, D; Zhang, M; Taskin, N; Goertsen, D; Shay, T; Sullivan, E; Huang, S; Kuma, S; Arokiaraj, C; Plattner, V; Campos, L; Mich, J; Monet, D; Ngo, V; Ding, X; Omstead, V; Weed, N; Bishaw, Y; Gore, B; Lein, E; Akrami, A; Miller, CT; Levi, B; Keller, A; Ting, J; Fox, A; Eroglu, C & Gradinaru V. 2023. Functional gene delivery to and across

brain vasculature of systemic AAVs with endothelial-specific tropism in rodents and broad tropism in primates. *Nature Communication*, 14, 3345.

- Ngo, V.; Gorman, JC; de la Fuente, F.; Souto, A.; Schiel, N. & Miller CT. 2022. Active vision for prey-capture in wild marmosets. *Current Biology*, 32, 3423-3428.
- Chen X; Kumar S; Adams CD; Yang D; Wang T; Wolfe DA; Ngo V; Campos LJ; Griffith JA; Ichiki T; Mazmanian SK; Osborne PB; Keast JR; Miller CT; Fox AS; Chiu IM; Gradinaru V. 2022. Engineered AAVs for non-invasive gene delivery to rodent and nonhuman primate nervous systems. *Neuron*, 110, 224-2257.
- Miller CT*; Gire D; Hoke K; Huk A; Kelly D; Leopold D; Smear M; Theunissen F; Yartsev M; Niell C*.2022. Natural behavior is the language of the brain. *Equal Contributions. *Current Biology*, 32, R482-493.
- Jovanovic, V., Fishbein, AR; de la Mothe, L; Lee, K & Miller CT. 2022. Behavioral context affects social signal representations within single primate prefrontal cortex neurons. *Neuron*, 110, 1318-1326.
- Courellis, H*; Nummela, SU*; Metke, M.; Bussell, R; Diehl, G.; Cauwenberghs, G. & Miller, CT. 2019. Spatial encoding in primate hippocampus during free-navigation. *PLoS Biology*, 17(12), e3000546. *Equal Contributions
- Wirthlin, M.; Chang, E.; Knorschild, M.; Krubitzer, L.; Mello, C.; Miller, CT.; Pfenning, A.; Vernes, S.; Tchernichovski, O.; Yartsev, M. 2019. A Modular Approach to Vocal Learning: Disentangling the diversity of a complex behavioral trait. *Neuron*, 104, 87-99.
- Nummela, SU; Jutris, M; Wixted, J; Buffalo, E & Miller, CT. 2019. Recognition memory in marmoset and macaque monkeys: a comparison of active vision. *Journal of Cognitive Neuroscience*, 31, 1318-1328.
- Miller CT, Hale, M; Okano, H; Okabe, S; & Mitra, P. 2019. Comparative principles for next-generation neuroscience. *Frontiers in Behavioral Neuroscience*, 13:12
- Chul, K; Joshi, S; Courellis, H.; Wang, J.; Miller, C.T.; & Cauwenberg, G. 2018. Sub- μ V-noise sub- μ W/channel ADC-Direct Neural Recording with 200mV/ms Transient Recovery through Predictive Digital Autoranging. *IEEE Journal of Solid-State Circuits*, 53, 3101-3110.
- Casselli, C; Ayres, PHB; Castro, S; Souto, A; Schiel, N. & Miller CT. 2018. The role of extra-group encounters in a Neotropical cooperative breeding primate, common marmosets: A field playback experiment. *Animal Behaviour*, 136, 137-146
- Toarmino, C.; Yen, C.; Papoti, D; Bock, N.A.; Leopold, D.; Miller, CT* & Silva, A*. 2017. Functional magnetic resonance imaging of auditory cortical fields in awake marmosets. *Neuroimage*, 162, 86-92. *Equal Contributions
- Nummela, SU; Jovanovic, V. de la Mothe, L. & Miller, CT. 2017. Social context-dependent activity in marmoset frontal cortex populations during natural conversations. *Journal of Neuroscience*, 37, 7036-7047.
- Miller, C.T. 2017. Why marmosets? *Developmental Neurobiology*, 77, 237-243
- Eliades, SJ & Miller, CT. 2017. Marmoset Vocal Communication: Behavior and Neurobiology. *Developmental Neurobiology*, 77, 286-299.
- Toarmino, C.; Wong, L. & Miller, CT. 2017. Audience affects decision-making in a marmoset communication network. *Biology Letters*, 13, 20160934
- MacDougall, M; Nummela, SU; Coop, S; Disney, A; Mitchell, J; & Miller, CT. 2016. Optogenetic manipulation of neural circuits in awake marmosets. *Journal of Neurophysiology*, 116, 1286-1294.
- Miller, CT.; Freiwald, W.; Leopold, D.; Mitchell, J.F.; Silva, A.; Wang, X. 2016. Marmosets: A Neuroscientific Model of Human Social Behavior. *Neuron*, 90, 219-233.
- Miller, CT; Thomas, AW; Nummela, SU; & de la Mothe, L. 2015. Responses of primate frontal cortex neurons during natural vocal communication. *Journal of Neurophysiology*, 114, 1158-1171.
- Mitchell, J; Priebe, N & Miller CT. 2015. Motion dependence of smooth eye movements in the marmoset. *Journal of Neurophysiology*, 113, 3954-3960.
- Belmonte, C; Callaway, E; Caddick, S; Churchland, P; Feng, G; Homanics, G; Lee, K; Leopold, D; Miller, CT; Mitchell, J; Mitalipov, S; Moutri, A; Movschoon, A; Okano, H; Reynolds, J; Ringach, D; Sejnowski, T; Silva, A; Strick, P; Wu, J; & Zang, F. 2015. Brains, Genes and Primates. *Neuron*, 86, 617-631.
- Chow, C.; Mitchell, J. & Miller, CT. 2015. Vocal turn-taking in a nonhuman primate is learned during ontogeny. *Proceedings of the Royal Society, B*. 282, 20150069.
- Mitchell, J; Reynolds, J & Miller, CT. 2014. Active vision in marmosets: A model for visual neuroscience. *Journal of Neuroscience*, 34, 1183-1194.
- Morrill, R; Thomas, AW; Schiel, N.; Souto, A; Miller, CT. 2013. The effect of habitat acoustics on common marmoset vocal signal transmission. *American Journal of Primatology*, 75, 904-916.
- Miller, CT & AW Thomas. 2012. Individual recognition during bouts of antiphonal calling in common marmosets. *Journal of Comparative Physiology, A*. 198, 337-346
- Miller, CT; Bee, MA. 2012. Receiver psychology turns 20: Should we broaden the scope? *Animal Behaviour*, 83, 331-34

- Roy, S; Miller, CT; Gottsch, D; Wang, X. 2011. Vocal control by common marmosets in the presence of interfering noise. *Journal of Experimental Biology*, 214, 3619-3629
- Miller, CT; DiMauro, A; Pistorio, A; Hendry, S; Wang, X. 2010. Vocalization induced cFos expression in marmoset cortex. *Frontiers in Integrative Neuroscience*, 4 (128) 1-15
- Miller, CT; Mandel, K; Wang, X. 2010. The communicative content of the common marmoset phee call during antiphonal calling. *American Journal of Primatology* 72, 974-980.
- Miller, CT; Eliades, SJ; Wang, X. 2009. Motor planning for vocal production in common marmosets. *Animal Behaviour*. 78, 1195-1203.
- Miller, CT; Beck, K; Meade, B. Wang, X. 2009 Antiphonal call timing in marmosets is behaviorally significant: Interactive playback experiments. *Journal of Comparative Physiology, A*. 195, 783-789
- Miller, CT; Wang, X. 2006. Sensory-motor interactions modulate a primate vocal behavior: antiphonal calling in common marmosets. *Journal of Comparative Physiology, A.*, 192, 27-38.
- Miller, CT; Iguina, C; Hauser, MD. 2005. Processing vocal signals for recognition during antiphonal calling. *Animal Behaviour*, 69, 1387-1398.
- Palleroni, A.; Miller, C.T. Hauser, M.D.; Marler, P. 2005. Prey plumage adaptation against falcon attack. *Nature*, 434, 973 – 974.
- Miller, CT; Scarl, JS, Hauser, MD. 2004. Sensory biases underlie sex differences in tamarin long call structure. *Animal Behaviour*, 68, 713-720.
- Miller, CT; Hauser, MD. 2004. Multiple acoustic cues underlie vocal signal recognition in tamarins: antiphonal calling experiments. *Journal of Comparative Physiology, A.*, 190, 7-19.
- Santos, LR; Miller, CT; Hauser, M.D. 2003. Representing tools: how two nonhuman primate species distinguishing between functionally relevant and irrelevant features of a tool. *Animal Cognition*, 6, 269-281.
- Miller, CT; Flusberg, S, Hauser, MD. 2003. Interruptibility of long call production in tamarins: implications for vocal control. *Journal of Experimental Biology*, 206, 2629-2639.
- Miller, CT; Paciulli, LM. 2002. Patterns of lateralized hand use in an arboreal primate (*Simias concolor*). *American Journal of Primatology*, 56, 231-236.
- Miller, CT; Miller, J; Gil de Costa, R; Hauser, MD. 2001. Selective phonotaxis by cotton-top tamarins. *Behaviour*, 138, 811-826.
- Miller, CT; Dibble, E; Hauser, MD. 2001. Amodal completion of acoustic signals by a nonhuman primate. *Nature Neuroscience*, 4, 783-784.
- Hauser, MD, Miller, CT; Liu, KD; Gupta, R. 2001. Cotton-top tamarins fail to recognize their mirror image: within- & between-species differences. *American Journal of Primatology*, 53, 131-137.
- Ghazanfar, AA; Flombaum, J; Miller, CT; Hauser, MD. 2001. The units of perception in cotton-top tamarin (*Saguinus oedipus oedipus*) vocal communication: Playback experiments with long calls. *Journal of Comparative Physiology, A.*, 187, 27-35.
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Book Chapters.

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