

Jude F. Mitchell

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Research interests:

- Impact of eye movements on behavior and on processing in visual cortex
- Selective visual attention during natural viewing and foraging tasks
- Neural mechanisms of foveal vision
- Long-range projections and local inhibition in cortical circuits
- Impairments in cortical feedback and inhibition in models of aging

Academic appointments

2015 - Assistant Professor, Dept. of Brain and Cognitive Sciences, University of Rochester

2010 - Staff Scientist, Systems Neuroscience, The Salk Institute, La Jolla, CA

2007 - Senior Research Associate, Systems Neuroscience, The Salk Institute, La Jolla, CA

2002 – Postdoctoral Research Fellow, Systems Neuroscience, The Salk Institute, La Jolla, CA

Education

Ph.D. Cognitive Science, University of California at San Diego, 2002

Dissertation: *Unity of Action: Coordination of Movement Plans Between Oculomotor Areas*

Committee members: David Zipser, Jeff Elman, Rich Krauzlis, Bill Kristan, Marty Sereno

B.S. Electrical Engineering, Harvard University, Cambridge, MA 1994

Research grants

2020-25: NIH, R01 EY030998 “Neural basis of trans-saccadic perception”
PI: Mitchell. Total costs over five years (\$1,901,780).

2020-23: NIH U01 “Neural circuit computations for visual motion during natural primate behaviors.” PIs: Alex Huk, Cory Miller. Co-I: Mitchell
Total costs to UR over three years (\$161,060)

Completed grants

- 2019-21: NIH, R21-EY029849, “Computational maps in extrastriate cortex.”
Co-PIs: Ian Nauhaus, Alex Huk, Robbe Gorris (UT Austin)
\$282,310 direct costs, over two years
- 2015-18: NIH, U01-NS094330, “Neural ensembles underlying natural tracking.”
Co-PIs: Nicholas Priebe, Alex Huk, Ila Fiete (UT Austin)
\$2,984,747 direct costs, over three years (\$253,000 sub-award to U of R)
- 2014-16: NIH, R21-MH104756, “Optogenetic tools to distinguish neuronal class in behaving non-human primates.”
Co-PI: Cory Miller (UCSD)
\$275,000 direct costs, over two years (2nd year at University of Rochester)
- 2014-17: NHMRC (Australia), APP1083152, “Neural circuits for active vision in the primate cerebral cortex.”
Co-PI: Marcello Rosa (Monash University)
\$612,902 direct costs, over three years (supported a visiting scientist at U of R)

Awards and small grants

- 2019 Schmitt Program on Integrative Neuroscience (SPIN) Award,
“Optogenetic identification and manipulation of cortico-cortical feedback in a non-human primate, the common marmoset”
Co-PI: Kuan Wang
Total costs over one year (\$47,846)
- 2019 University of Rochester Research Award, “Neural basis of foveal vision”
Co-PI: Michele Rucci
Total costs over one year (\$58,238)
- 2017 – Schmitt Program on Integrative Neuroscience (SPIN) Award,
“Investigating convergent strategies for population coding.”
Co-PI: Krishnan Padmanabhan (U of R).
\$50,000 direct costs, one year
- 2014 – Australian Research Council (ARC) Award (*declined for U of R job offer*),
“Cellular mechanisms of perception and selective attention in cortical circuits.”
\$800,000 direct costs, over four years.
- 2012 – Kavli Institute Innovative Research Award,
“Developing marmosets as a model for visual neuroscience.”
Co-PIs: Cory Miller (UCSD), John Reynolds (The Salk Institute)
\$30,000 direct costs, single year

Workshop grants

2020 – NSF, Center for Visual Science Symposia, “Active Vision.”

Co-PI: Michele Rucci and Martina Poletti (U of R)

\$50,000

2016 – NSF, Center for Visual Science Symposia, “The Future of Attention.”

Co-PI: Ben Hayden (U of R)

\$10,000

2016 – NIH, R13EY026284, Center for Visual Science Symposia, “The Future of Attention.”

Co-PI: Ben Hayden (U of R)

\$25,000

Scholarship/Fellowship/Awards

2010-12: Swartz Foundation Research Fellowship, The Salk Institute, La Jolla, CA

“Normalization circuits and spiking models of attention.”

2003-5: NIH Training Fellowship in Cognitive Neuroscience, UCSD

“Neuronal mechanisms of spatial attention in the macaque.”

1996-99: NSF Graduate Student Fellowship, UCSD

“Neuronal models of saccade planning and working memory.”

Academic Service

2019-20: Co-Organizer of Bi-Annual Center for Visual Science (CVS) Symposium
“Active Vision”, June 10-13, University of Rochester

2019: Organizer, Marmoset Social Satellite Event,
Society for Neuroscience Meeting (Chicago)

2016-18: Boynton Colloquium Organizer,
Center for Visual Science (CVS), University of Rochester

2015-20: Institutional Animal Care and Use Committee (IACUC),
University of Rochester Medical Center

2016-18: Neuroscience Search Committee,
Dept. of Brain and Cognitive Science (BCS), University of Rochester

2015-17: Organizing Committee, Marmoset Social Satellite Event,
Society for Neuroscience Meeting

2015-16: Co-Organizer of Bi-Annual Center for Visual Science (CVS) Symposium
“The Future of Attention”, June 3-6, University of Rochester

- 2016-19: Executive Committee (rotating member),
Center for Visual Science (CVS), University of Rochester
- 2016-18: Graduate Admissions Committee,
Dept. of Brain and Cognitive Science (BCS), University of Rochester
- 2015: Organizer of “Comparative Neural Circuitry Meeting”
(Co-organizers: Cory Miller, David Leopold) Sept. 16-18, Jackson Hole, WY

Invited Teaching

- 2017, Summer: Workshop on visual spatial attention and marmoset vision at
Vision: A Platform for Linking Circuits, Behavior, and Perception,
Cold Springs Harbor Laboratory summer course
- 2011, Summer: Workshop on neural mechanisms of spatial attention at
Telluride Neuromorphic Engineering Workshop
Telluride, Colorado

Teaching

- 2018-19, Spring: BCS/NSC 203: *Laboratory in Neurobiology*, Head Instructor
Co-instructors with David Kornack, Sarah McConnel, and Renee Miller
University of Rochester (+50 undergraduate students)
- 2016-17, Spring: BCS/NSC 203: *Laboratory in Neurobiology*, Co-taught with Kathy
Nordeen (Lead Instructor), David Kornack, and Renee Miller
University of Rochester (+60 undergraduate students)
- 2015-17, Fall: NSC 301: *Senior Seminar in Neuroscience*
University of Rochester (+20 undergraduate students)
- 2015,17, Fall: BCS 504: *Sensory Systems*, Co-Instructor
Co-taught with Greg DeAngelis (Lead Instructor)
University of Rochester (+5 graduate students)
- 2017-present: Weekly literature reviews in *Visual Neuroscience*,
University of Rochester (2 graduate and 3-5 undergraduate students)
- 2002, Spring: *Neural Networks and Models of Cognition*, Head Instructor
Cognitive Science Department, University of California at San Diego
- 2000, Spring: *Introduction to Probability and Statistics*, Head Instructor
Cognitive Science Department, University of California at San Diego

Advising

Post-Doctoral: 2016-present: Jacob Yates (CVS/BCS, University of Rochester)
2016-present: Shaun Cloherty (Monash University)
2014-2016: Samuel Nummela (UCSD)
2011-2015: Anirvan Nandy (Salk Institute)

Graduate Students:

Current: 2015-present: Shanna Coop (BCS, University of Rochester)
2015-present: Sunwoo Kwon (BCS, University of Rochester)
Graduated: 2010-2013: Emily Anderson (UCSD/Salk Institute)

Undergraduate Students/Honors Thesis:

Graduated: 2015: Garrett Bunce (BCS/NSC, University of Rochester)
2016: Casey Bishop (BCS/NSC, University of Rochester)
Enrolled: 2018-20: Gabriel Sarch (BME, University of Rochester)
2018-20: Christina Moretz (BCS, University of Rochester)
2019-21: Leah Sikand (NSC, University of Rochester)
2019-21: Halle Hangen (BCS, University of Rochester)
2019-20: Hannah Stone (NSC, University of Rochester)

Undergraduate Summer Interns:

2017: Zoe Sterns (McNair Scholar, University of Oklahoma)

Ad-hoc Refereeing

Grant agencies: *NIH SREA* (2017: 1), *Wisconsin National Primate Center Project Review* (2017:1), *Canada Foundation for Innovation* (2017:1)

Journals:

Science (2016:1), *Nature* (2013:1), *Neuron* (2016:1), *Nature Communications* (2017:1, 2019:1), *Elife* (2015:1), *PLOS Biology* (2014:1, 2019:1), *Molecular Psychiatry* (2015:1), *Journal of Neuroscience* (2015-17:3, 2019:2), *Journal of Neurophysiology* (2015-17:3), *Cerebral Cortex* (2015-17:4), *NeuroImage* (2015:1), *Scientific Reports* (2017:1), *Developmental Neurobiology* (2016:1), *PLOS One* (2015:1), *Behavioral Brain Research* (2015:1), *Journal of Comparative Neurology* (2019:1), *Frontiers in Neural Circuits* (2017:1)

Patents

2013: Patent No. 61/727,599. *Electrode and method of use*. Filed November 17, 2013.

Consulting

2017-19: Janssen, Inc., Tamara Berdyeva San Diego, CA
Establishment of a marmoset breeding colony.

2011: Brain Corporation, Inc., Eugene Izhikevich San Diego, CA
Development of biologically realistic models of vision.

Research Articles in preparation (* equal contribution)

1. Kwon S, Huxlin KR, **Mitchell JF**. 'Disassociation between perception and predictive oculomotor behavior in retrained cortically blind fields.'
2. Yates JL, Coop SH, **Mitchell JF**. 'V1 Neurons tuned for high-spatial frequencies show pre-saccadic enhancement.'
3. Coop SH, Yates JL, **Mitchell JF**. 'Neural mechanisms for pre-saccadic attention in marmoset area MT.'
4. Yates JL*, Cloherty SL*, DeAngelis GC, **Mitchell JF**. 'Perceptual biases in motion perception are multiplicative.'
5. Coop SH, Bunce GW, **Mitchell JF**. 'Pre-saccadic motion integration drives smooth eye movements in the marmoset monkey.'
6. Sarch, G*, Yates JL*, Coop SH, **Mitchell JF**. 'Current source density (CSD) analysis from semi-chronic linear array recordings in marmoset visual cortex.'

Peer-reviewed Review Articles

1. Miller CT, Friewald W, Leopold DA, **Mitchell JF**, Silva AC, Wang XJ (2016). 'Marmosets: A Neuroscientific Model of Human Social Behavior.' *Neuron*, 90(2), 219-233.
2. **Mitchell, JF**, Leopold, DA (2015). 'The marmoset monkey as a model for visual neuroscience.' *Neuroscience Research*, 93, 20-46.
3. Belmonte, J.C.I., Callaway, E.M., Churchland, P., Caddick, S.J., Feng, G., Homanics, G.E., Lee, K.F., Leopold, D.A., Miller, C.T., **Mitchell, J.F.** and Mitalipov, S. (2015). 'Brains, genes, and primates.' *Neuron*, 86(3), pp.617-631.
4. Stoner GR, **Mitchell JF**, Fallah M and Reynolds JH (2005). 'Interacting competitive selection in attention and binocular rivalry.' *Progress in Brain Research*, 14:227-34.

Peer-reviewed Research Articles (* equal contribution)

1. Cloherty SL*, Yates JL*, DeAngelis GC, **Mitchell JF** (2020). ‘Motion perception in the common marmoset.’ *Cerebral Cortex*, Dec 11. pii: bhz267. doi: 10.1093/cercor/bhz267.
2. Kwon S, Rolfs M, **Mitchell JF** (2019). ‘Pre-saccadic motion integration drives a predictive postsaccadic following response.’ *Journal of Vision*, 19(11), 12-12.
3. Nummela SU, Coop S, Cloherty SL, Boisvert CJ, Leblanc M, **Mitchell JF** (2017). ‘Psychophysical measurement of marmoset acuity and myopia.’ *Developmental Neurobiology*, 77(3), 300-13.
4. Nandy A, **Mitchell JF**, and Reynolds JH (2016). ‘Neurons in macaque Area V4 are tuned for complex spatio-temporal patterns.’ *Neuron*, 91(4), 920-930.
5. Divincenti, J., Miller, AD, Knoedl, DJ, **Mitchell, JF** (2016). ‘Uterine Rupture in a Common Marmoset (*Callithrix jacchus*).’ *Comparative Medicine*, 66(3), 254-258
6. MacDougall M, Nummela S, Coop S, Disney A, **Mitchell J**, and Miller T (2016). ‘Viral expression and optogenetic manipulation of neural circuits in marmosets’. *J. Neurophysiology*, 116(3), 1286-94.
7. **Mitchell, JF**, Priebe, NJ, & Miller, CT (2015). Motion dependence of smooth pursuit eye movements in the marmoset. *Journal of neurophysiology*, 113(10), 3954-3960.
8. Chow, CP*, **Mitchell, JF***, and Miller, CT (2015). Vocal turn-taking in a non-human primate is learned during ontogeny. *Proceedings of the Royal Society of London B: Biological Sciences*, 282(1807), 20150069.
9. **Mitchell JF**, Boisvert CR, Reuter JD, Reynolds JH, Leblanc M (2014). ‘Correction of refractive errors in rhesus macaques (*Macaca mulatta*) involved in visual research.’ *Comparative Med.* 64(4):300-8.
10. **Mitchell JF**, Reynolds JH, and Miller CT (2014). ‘Active vision in marmosets: a model system for visual neuroscience.’ *J Neuroscience*, 34(4): 1184-93.
11. Anderson EB, **Mitchell JF** and Reynolds JH (2013). ‘Attention-dependent reductions in burstiness and action potential height in macaque area V4’. *Nature Neuroscience*, 16(8):1125-31.
12. Nandy AS, Sharpee T, Reynolds JH, and **Mitchell JF** (2013). ‘The fine structure of shape tuning in area V4’. *Neuron* 78(6):1102-15.

13. Sundberg KA, **Mitchell JF**, Gawne TJ and Reynolds JH (2012). 'Attention influences single unit and local field potential response latencies in visual cortical area V4'. *J Neuroscience*, 32:16040-50.
14. Anderson EB, **Mitchell JF**, and Reynolds JH (2011). 'Attentional modulation of firing rate varies with burstiness across putative pyramidal neurons in macaque visual area V4'. *J. Neuroscience*, 31:10983-92.
15. Ciaramitaro VM, **Mitchell JF**, Stoner GR, Reynolds JH, and Boynton GM (2010). 'Object-based attention to one of two superimposed surfaces alters responses in human early visual cortex'. *J. Neurophysiology*, 105: 1258-65.
16. **Mitchell JF**, Sundberg KA, and Reynolds JH (2009). 'Spatial attention decorrelates intrinsic activity fluctuations in macaque area V4'. *Neuron*, 63:879-888.
17. Sundberg KA, **Mitchell JF**, and Reynolds JH (2009). 'Spatial attention modulates center-surround interactions in macaque visual area V4'. *Neuron*, 61:1-12.
18. Khoe W, **Mitchell JF**, Reynolds JH and Hillyard, SA (2008). 'ERP evidence that surface-based attention biases interocular competition during rivalry'. *Journal of Vision*, 8(3):18.1-11.
19. **Mitchell JF**, Sundberg KA, and Reynolds JH (2007). 'Differential attention-dependent response modulation across cell classes in macaque visual area V4'. *Neuron*, 55: 131-141.
20. Khoe W, **Mitchell JF**, Reynolds JH and Hillyard, SA (2005) 'Exogenous attentional selection of transparent superimposed surfaces modulates early event-related potentials'. *Vision Research*, 45(24):3004-14
21. **Mitchell JF**, Stoner GR and Reynolds JH (2004) 'Object-based attention in binocular rivalry'. *Nature*, Vol 429:410-413.
22. **Mitchell JF**, Stoner GR, Fallah M, and Reynolds JH (2003) 'Attentional selection of superimposed surfaces cannot be explained by modulation of the gain of color channels.' *Vision Research*, 43(12):1323-8.
23. **Mitchell JF**, Zipser D (2003) 'Sequential memory-guided saccades and target selection: A neural model of the frontal eye fields.' *Vision Research*, 43:2669-95.
24. **Mitchell JF**, Zipser D (2001) 'A model of visual-spatial memory across saccades.' *Vision Research*, 41:1575-92.
25. Czeisler CA, Duffy JF, Shanahan TL, Brown EN, **Mitchell JF**, Rimmer DW, Ronda JM, Silva EJ, Allan JS, Emens JS, Dijk DJ, Kronauer RE (1999) 'Age-independent stability, precision, and near-24-hour period of the human circadian pacemaker.' *Science*, 284:1-5.

26. Vassilev PM, **Mitchel JF**, Vassilev M, Kanazirska M, Brown EM (1997) ‘Assessment of frequency-dependent alterations in the level of extracellular Ca^{2+} in the synaptic cleft.’ *Biophysical Journal*, 72:2103-6.

Invited Book Chapters

1. Mitchell, JF, Leopold, DA (2018). ‘*The marmoset monkey as a model for visual neuroscience.*’ In *The Common Marmoset in Captivity and Biomedical Research*, edited by Robert P. Marini, Elsevier, Inc.
2. Leopold DA, Mitchell JF, Freiwald WA (2017). ‘*Evolved Mechanisms of High-Level Visual Perception in Primates.*’ In *Evolution of Nervous Systems*, 2nd Edition, edited by Jon H. Kaas, Elsevier, Inc.

Invited Talks, Colloquiums, and Tutorials

- 2019 - Neuroscience Seminar, Maryland University, College Park, MD
Neural mechanisms of pre-saccadic attention in marmoset monkeys
- Neuroscience Seminar, Yale University, New Haven, CT
Neural mechanisms of pre-saccadic attention in marmoset monkeys
- Neural Computation Institute Seminar, University of Pennsylvania, PA
Neural mechanisms of pre-saccadic attention in marmoset monkeys
- 2018 - Marmoset PI Meeting, Boulder, CO
Organizers: Kuo-Fen Lee (Salk) and Cory Miller (UCSD)
Discussions to standardize care and use of marmoset in research
- 2017 - Marmoset Social Event, Society for Neuroscience, Washington, DC
Challenges in establishing a marmoset research program
- Vision Course Seminar, Banbury Center, Cold Springs Harbor, NY
Neural mechanisms of attention and the marmoset as a model system
- Center for Perceptual Systems (CPS) Seminar, Austin, TX
Neural mechanisms of attention and the marmoset as a model system
- 2016 - Neurosciences Graduate Program Seminar, Rochester, NY
Neural mechanisms of attention and the marmoset as a model system
- 2015 - Neuroscience Seminar, University of Western Ontario, Canada

Active vision in marmosets: a model for visual neuroscience.

The Common Marmoset as a Transgenic Model of the Human Brain in Health,
Janelia Farm, Washington, DC.

Active vision in marmosets: a model for visual neuroscience.

Japanese Meeting on Marmoset Neuroscience, Inuyama, Japan

Active vision in marmosets: a model for visual neuroscience.

Special Seminar, Center for Visual Sciences, Rochester, NY

Active vision in marmosets: a model for visual neuroscience.

2014 - Marmoset social, The Society for Neuroscience, Washington, DC
Visual behavioral experiments in awake marmosets.

Neuroscience Search Seminar, Cambridge University, England

Active vision in marmosets: a New World for visual neuroscience

Laboratory of Sensorimotor Research, NIH, Bethesda, MD

Active vision in marmosets: a New World for visual neuroscience

Krieger Brain & Mind Institute Seminar, Johns Hopkins, Baltimore, MD

Active vision in marmosets: a New World for visual neuroscience

Physiology Search Seminar, University of Arizona, Tucson, AZ

Active vision in marmosets: a New World for visual neuroscience

Neuroscience Seminar, Pittsburgh University, Pittsburgh, PA

Active vision in marmosets: a New World for visual neuroscience

Neuroscience Search Seminar, Baylor University, Houston, TX

Active vision in marmosets: a New World for visual neuroscience

Neuroscience Search Seminar, Brain and Cognitive Sciences, Rochester, NY

Active vision in marmosets: a New World for visual neuroscience

2013 - Transgenic models of the human brain. Cricks-Jacobs Symposium, La Jolla, CA
Active vision in marmosets: a New World for visual neuroscience.

Invited seminar: Dr. Erika Sasaki and Hideyuki Okano, Keio University, Japan
Mechanisms of attention and the marmoset as a model for visual neuroscience.

Attention and Learning Neuroscience Satellite Meeting, La Jolla, CA

Neural mechanisms of spatial attention: reductions of ongoing cortical activity.

Physiology Dept. Seminar, Monash University, Melbourne, Australia

Active vision in marmosets: a New World for visual neuroscience.

Gordon Research Conference, Stonehill College, Easton, MA
The role of attention feedback in sensory processing.

Psychology Seminar, University of Arizona, Tucson, AZ.
Neural mechanisms of attention.

Psychology Seminar, Psychology Dept, UCSD, La Jolla, CA.
The marmoset as a primate model for visual neuroscience.

Neuroscience Special Seminar, Psychology Dept, Vanderbilt U., Nashville, TN.
The role of attention feedback in sensory processing.

Neurobiology Seminar Series, Zilke Institute, USC, Los Angeles, CA.
The role of attention feedback in sensory processing.

- 2012 - Swartz Foundation Research Retreat, La Jolla, CA.
A network model of attention-dependent reductions of correlated noise.
- 2010 - Special Seminar, Neurosciences Institute, La Jolla, CA
Spatial attention decorrelates intrinsic noise fluctuations
- 2009 - COSYNE Workshop, ‘Modulation of cortical state’, Snowbird, UT
Spatial attention decorrelates intrinsic noise fluctuations

Conference Oral Presentations (within 5 years)

1. *Coop SH, Yates JL, Mitchell JF. Presaccadic attention in marmoset area MT. The Marmoset BioSymposium, October, 2019.
2. *Yates JL, Coop SH, Mitchell JF. V1 neurons tuned for high spatial frequencies show pre-saccadic enhancement. Vision Science Society Talk, May, 2019.
3. *Yates JL, Cloherty SL, DeAngelis GC, Mitchell JF. Motion estimation in the common marmoset. The 13th Asia Pacific Conference on Vision (2017).
4. *Coop SH, Nummela SU, Mitchell JF. Psychophysical measurement of marmoset acuity and myopia. OSA Fall Vision Meeting (2016), Rochester, NY.
5. *Mitchell JF. The marmoset as a model organism for active vision and visual neuroscience. Minisymposium, “Transgenic Primate Models of the Human Brain”. Program No. 668.02.2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014.

Conference Poster Presentations (within 5 years)

1. Coop SH, Yates JL, Mitchell JF. Neuronal mechanisms of pre-saccadic attention in middle temporal areas of marmoset monkey. Program No. 226.03 2019 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2019.
2. Yate JL, Coops SH, Mitchell JF. Pre-saccadic modulation of sensory responses in primary visual cortex. Program No. 578.2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018.
3. Coop SH, Bunce GW, Mitchell JF. Spatial cueing and planned saccade tasks in the marmoset. Program No. 60.16.2017 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2017.
4. Cloherty SL, Yates JL, DeAngelis GC, Mitchell JF. Motion perception in the common marmoset. Program No. 146.04.2017 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2017.
5. Yates JL, Cloherty SL, DeAngelis GC, Mitchell JF. Motion estimation in the common marmoset. Sunposium 2017, Max Plank Institute, West Palm Beach, FL
6. Mitchell JF, Nummela SU, Miller CT. Natural viewing and pursuit behavior in marmosets performing foraging tasks. Program No. 61.13.2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015.
7. Nummela SU, Miller CT, Mitchell JF. Psychophysical measurement of marmoset visual acuity as a function of eccentricity. Program No. 330.09.2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015.
8. MacDougall M, Coop SH, Nummela SU, Mitchell JF, Miller CT. Optogenetic control of marmoset cortical neurons. Program No. 413.11.2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015.
9. Mitchell JF, Priebe NJ, Miller CT. Smooth pursuit eye movements in the common marmoset. Program No. 626.18.2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014.
10. Mitchell JF, Reynolds JH. Spatial attention may regulate noise correlations through increases in local inhibition. Program No. 435.03.2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014.
11. Nandy AS, Reynolds JH, Mitchell JF. Spatio-temporal structure of shape-tuning in V4 receptive fields. Program No. 236.18.2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014.
12. Casale AE, Hansen BJ, Mitchell JF, Reynolds JH, Callaway EM. Cell-type specific differences in high and low frequency synchronization during behavior in the awake mouse. Program No. 60.16.2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014.

Research and Work-Related Experiences

- 1994-95: Scientific Programmer, Brigham Women's Hospital, Harvard University
Analysis of semi-periodic signals in noisy time-series
Supervisors: Richard Kronauer and Emery Brown
- 1993-94: Senior Undergraduate Thesis, Electrical Engineering, Harvard University
Differential equations and multi-compartment models of single neurons
Advisor: Richard Kronauer
- 1992: Scientific Programmer and Research Assistant, NOAA, Asheville, NC
Analysis of geographic information data and precipitation patterns
Advisor: Alan McNab