

MOTOTAKA SUZUKI, PH.D.

NeuroCure Cluster of Excellence
Humboldt University in Berlin
Campus Charité Mitte
Charitéplatz 1, 10117 Berlin Germany

Phone: +49 30 450 539158
Fax: +49 30 450 539916
Email: mototaka@gmail.com

EDUCATION

- 02/2012-present **Postdoctoral research fellow** in Neurophysiology, Humboldt-Universität zu Berlin, Berlin, Germany. Advisor: Prof. Matthew Larkum
- 03/2008-12/2011 **Postdoctoral research fellow** in Neurophysiology, Columbia University, New York, USA. Advisor: Prof. Jacqueline Gottlieb
- 04/2004-12/2007 **Ph.D.** in Manufacturing Systems and Robotics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland. Advisor: Prof. Dario Floreano
- 04/2002-03/2004 **Master** in Mechanical Engineering, Waseda University, Tokyo, Japan. Advisors: Profs. Dario Floreano and Shigeki Sugano
- 04/2002-03/2003 **Research assistant** in human EEG, RIKEN Brain Science Institute, Wako, Japan. Advisor: Dr. Andrzej Cichocki
- 04/1998-03/2002 **Bachelor** in Mechanical Engineering, Waseda University, Tokyo, Japan. Advisor: Prof. Shigeki Sugano

HONORS

- 03/2013-02/2015 **Marie Curie International Incoming Fellowship**, European Commission, Brussels, Belgium.
- 01/2009-12/2011 **Cross-Disciplinary Fellowship**, Human Frontier Science Program Organization, Strasbourg, France.
- 03/2008-12/2008 **Fellowship for Prospective Researchers**, Swiss National Science Foundation, Bern, Switzerland.
- 07/2005-06/2006 **Takeshi Iizuka Memorial Scholarship**, Takeshi Iizuka Memorial Scholarship Foundation, Tochigi, Japan.
- 07/2004-06/2005 **PhD Student Fellowship**, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.
- 02/2002 **Waseda University Student Cultural Award**, Waseda University, Tokyo, Japan.
- 02/2002 **Excellent Paper Award**, The Business and Technology Daily News, Tokyo, Japan.
- 01/2002 **Takahiro Miyashita Memorial Award**, Waseda University, Tokyo, Japan.
- 11/2001 **Paper Award**, NIKKEI Science: Scientific American Japanese Edition, Tokyo, Japan.

PUBLICATIONS

Journal Papers

- [Suzuki, M.](#) and Gottlieb, J. (2013). Distinct neural mechanisms of distractor suppression in the frontal and parietal lobe. **Nature Neuroscience**. 16(1):98-104.
Featured in "News and Views" by Noudoost, B. and Moore, T. (2013). Parietal and prefrontal neurons driven to distraction. **Nature Neuroscience**. 16(1):8-9.
- Peck, C.J., Jangraw, D.C., [Suzuki, M.](#), Efem, R. and Gottlieb, J. (2009). Reward modulates attention independently of action value in posterior parietal cortex. **Journal of Neuroscience**, 29(36):11182-11191.
- Gottlieb, J., Balan, P., Oristaglio, J. and [Suzuki, M.](#) (2009). Parietal control of attentional guidance: The significance of sensory, motivational and motor factors. **Neurobiology of Learning and Memory**, 91(2):121-128.
- [Suzuki, M.](#) and Floreano, D. (2008). Enactive robot vision. **Adaptive Behavior**, 16(2/3):122-128.
- [Suzuki, M.](#), Noda, K., Suga, Y., Ogata, T. and Sugano, S. (2006). Dynamic perception after visually guided grasping by a human-like autonomous robot. **Advanced Robotics**, 20(2):233-254.

- Suzuki, M., Floreano, D. and Di Paolo, E.A. (2005). The contribution of active body movement to visual development in evolutionary robots. **Neural Networks**, 18(5/6):656-665.
- Floreano, D., Suzuki, M. and Mattiussi, C. (2005). Active vision and receptive field development in evolutionary robots. **Evolutionary Computation**, 13(4):527-544.

Full-length Conference Publications

- Suzuki, M., Gritti, T. and Floreano, D. (2009). Active vision for goal-oriented humanoid robot walking. In *Creating Brain-Like Intelligence*, LNCS, vol. 5436, Springer-Verlag Berlin Heidelberg, pp. 303-313.
- Suzuki, M. and Floreano, D. (2006). Evolutionary active vision toward three dimensional landmark-navigation. In *From Animals to Animats 9*, LNCS, vol. 4095, Springer-Verlag Heidelberg, pp. 263-273.
- Suzuki, M., van der Blij, J. and Floreano, D. (2006). Omnidirectional active vision for evolutionary car driving. In *Intelligent Autonomous Systems 9*, IOS Press, pp. 153-161.
- Suzuki, M., Floreano, D. and Di Paolo, E.A. (2005). Constraints on body movement during visual development affect behavior of evolutionary robots. In *Proceedings of the IEEE International Joint Conference on Neural Networks (IJCNN'2005)*, pp. 2778-2783.
- Noda, K., Suzuki, M., Tsuchiya, N., Suga, Y., Ogata, T. and Sugano, S. (2003). Robust modeling of dynamic environment based on robot embodiment. In *Proceedings of the IEEE International Conference on Robotics and Automation (ICRA'2003)*, pp. 3565-3570.

Conference Abstracts

- Suzuki, M. and Gottlieb, J. (2010). The role of inhibition in the transition from transient to sustained neuronal activity in fronto-parietal cortical circuits. Gordon Research Conference on Neurobiology of Cognition, August 1-6, Waterville Valley, NH, USA.
- Suzuki, M. and Gottlieb, J. (2009). A spatio-temporal window of vulnerability for fast memory consolidation in the parietal cortex. Neuroscience 2009: The 39th Annual Meeting of the Society for Neuroscience, October 17-21, Chicago, Ill, USA.
- Suzuki, M. and Gottlieb, J. (2009). Transition between attention and memory in monkey posterior parietal cortex. HFSP 20th Anniversary and Ninth Awardees Annual Meeting, June 1-4, Tokyo, Japan.
- Suzuki, M. (2008). Visuo-motor coordination in bipedal humanoid robot walking. SIP 2008: The International Conference on Signal Processing, Image Processing and Pattern Recognition, December 13-15, Hainan Island, China.
- Peck, C., Jangraw, D., Suzuki, M. and Gottlieb, J. (2008). Visual plasticity induced by reward associations in monkey lateral intraparietal area (LIP). Neuroscience 2008: The 38th Annual Meeting of the Society for Neuroscience, November 15-19, Washington DC, USA.
- Suzuki, M. and Floreano, D. (2006). Active vision for neural development and landmark navigation. 50th Anniversary Summit of Artificial Intelligence, July 9-14, Ascona, Switzerland.
- Floreano, D. and Suzuki, M. (2006). Active vision and neural development in animals and robots. The Seventh International Conference on Cognitive Modeling (ICCM'06), April 5-8, Trieste, Italy.

Dissertations

- Suzuki, M. (2007). Enactive robot vision. **PhD thesis**. Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.
- Suzuki, M. (2004). Adaptive neural controllers for autonomous outdoor navigation. **Master's thesis**. Waseda University, Tokyo, Japan.
- Suzuki, M. (2002). Visually guided object grasping by a humanoid robot. **Bachelor's thesis**. Waseda University, Tokyo, Japan.

Invited Review Articles

- Suzuki, M. (2009). Transition between attention and memory in fronto-parietal cortical network. HFSP Newsletter, No 22.
- Suzuki, M. and Floreano, D. (2006). Trends in dynamic and embodied cognition. International Neural Network Society Newsletter, 4(2) pp. 9-10.

PROGRAM COMMITTEE MEMBER

- The Second International Conference on Biomimetics and Biohybrid Systems. July 29-August 2, 2013, London, United Kingdom.
- The First International Conference on Biomimetics and Biohybrid Systems. July 9-12, 2012, Barcelona, Spain.
- The International Symposium on Signal Processing, Image Processing and Pattern Recognition, December 8-10, 2011, Jeju Island, Korea.
- The 12th Conference towards Autonomous Robotic Systems, August 31-September 2, 2011, Sheffield, South Yorkshire, United Kingdom.
- The International Symposium on Signal Processing, Image Processing and Pattern Recognition, November 11-13, 2010, Cebu, Philippines.
- The Second International Conference on Computer Science and its Applications, December 10-12, 2009, Jeju, Korea.
- The International Symposium on Signal Processing, Image Processing and Pattern Recognition, December 10-12, 2009, Jeju Island, Korea.
- The First International Workshop on Swarm Cognition, July 29, 2009, Amsterdam, The Netherlands.
- The International Workshop on Computer Graphics, Multimedia and Security, June 25-27, 2009, Seoul, Korea.
- The International Symposium on Signal Processing, Image Processing and Pattern Recognition, December 13-15, 2008, Hainan Island, China.
- The Fourth International Workshop on Attention in Cognitive Systems, January 8, 2007, Hyderabad, India.

EDITORIAL BOARD MEMBER

- **Associate Faculty Member**, Faculty of 1000. 2009-2013
- **Review Editor**, Signal Processing, Image Processing and Pattern Recognition. 2008-present
- **Review Editor**, Frontiers in Neurorobotics. 2007-present