

Curriculum Vitae  
**Chris Seh Hong Lim, PhD.**  
Assistant Professor  
MGH Institute of Health Professions  
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Nov 1, 2019

**Academic Training:**

- 2014-2019 Ph.D. Boston University, School of Medicine, Boston, MA, Ph.D. in Anatomy and Neurobiology  
PhD advisor: Ki Ann Goosens, Stress Resilience Lab at MIT, MGH and Mount Sinai
- 2013- 2014 M.S. Boston University, School of Medicine, Boston, MA, Masters in Anatomy and Neurobiology
- 6/2008 M.V.Sc National Chung Hsing University, Taiwan, Veterinary Basic Medical Science
- 6/2006 B.S. National Chung Hsing University, Taiwan, Life Sciences

**Academic Appointments:**

- 09/2019-present Assistant Professor, Department of Physician Assistant Studies, MGH Institute of Health Professions, Boston, MA
- 12/2010-7/2013 Senior Research Assistant, Institute of Cellular and System Medicine, National Health Research Institutes, Taiwan
- 10/2008-10/2010 Research Assistant, Department of Medical Research, Taichung Veterans General Hospital, Taiwan
- 06/2003-09/2004 Undergraduate Research Assistant, Department of Physiology, Chung Shan Medical University, Taiwan

**Honors:**

- 5/2016 3<sup>rd</sup> Place in Henry Russek Student Achievement Day Award
- 9/2015 MIT Friend of McGovern Institute PhD Student Fellowship
- 5/2012 Best Presentation Award, NHRI-NTHU Joint Research Conference, Taiwan
- 2/2011 Poster Award, NHRI Research Day, Taiwan
- 6/2008 Most Outstanding Research, National Chung Hsing University, Taiwan
- 3/2008 Best Poster Award, National Chung Hsing University, Taiwan

**Certification:**

- 5/2019 Vesalius Teaching Certificate
- 12/2010 Certificate in Care for Laboratory Animals in Specific Pathogen Free (SPF) Environment
- 12/2008 Certificate in Handling Laboratory Animals at Biosafety Level 2
- 10/2006 Certificate in Laboratory Animal Ethics and Legislation
- 9/2006 Certificate of Advanced Stem Cell Culture Technique

**Departmental and University Committees:**

- 9/2015-9/2017 Incoming Student Greeter, Boston University, Anatomy and Neurobiology program
- 9/2015-9/2016 Science Committee, Boston University, Anatomy and Neurobiology program
- 2/2014-9/2014 Student Representative, Boston University, School of Medicine, Boston, MA

**Teaching Experience and Responsibilities:**

- 1/2018- 5/2019 Assistant course director and lecturer in Human Body System, Boston University, School of Medicine, Boston, MA
- 1/2017- 5/2019 Lecturer in Methods in Neuroscience (Optogenetics), Boston University, School of Medicine, Boston, MA

- 1/2017- 5/2019 Teaching Assistant in Methods in Neuroscience, Boston University, School of Medicine, Boston, MA (80 credit hours)
- 11/2015-5/2019 Teaching Assistant in Medical Neuroscience, Boston University, School of Medicine, Boston, MA (60 credit hours)
- 9/2014-5/2019 Teaching Assistant in Gross Anatomy, Boston University, School of Medicine, Boston, MA (140 credit hours)
- 5/2014-5/2019 Tutored seven students in Medical Neuroscience and Gross Anatomy, Boston University, School of Medicine, Boston, MA  
Stephanie Costa, Tina Shiang, Ruiyi Ren, Suji Reprekash, Ana Balta in Med. Neuroscience  
Mythri Subramanian and Tara Shenoy in Gross Anatomy
- 9/2006-9/2008 Teaching Assistant in Gross Veterinary Anatomy, National Chung Hsing University, Taiwan (210 credit hours)

### Professional Societies:

- 4/2018-Present American Association of Anatomists, Member
- 12/2012-Present Society for Neuroscience, Member
- 4/2008-Present The Association of Anatomists of the Republic of China, Member
- 4/2008-Present Chinese Society of Veterinary Science, Member
- 10/2007-Present Taiwanese Society of Biomedical Engineering, Member

### Invited lectures and Panels:

- 6/14/2018 “Optogenetic approach to study prediction errors in fear conditioning” Invited speaker for Advanced Neuroscience Seminar, Taichung, Taiwan.
- 6/15/2018 “Applying for PhD program in the USA” Invited speaker for Graduate School Application Workshop, Taichung, Taiwan.
- 4/20/2017 “The contingency degradation in auditory fear conditioning” Anatomy and Neurobiology Departmental Seminar, Boston, MA.
- 4/13/2017 “Unpredictable aversive events enhance fear memory formation” Boston Psychology Graduate Student Symposium, Boston, MA
- 12/6/2016 “Composed” A documentary exploring performance anxiety. Invited panelist for movie premier. Harvard Graduate School of Education, Cambridge, MA.
- 10/8/2016 “Innovation in an animal model for PTSD” Syrian Medical Society’s 3<sup>rd</sup> National Symposium, Boston, MA.
- 7/26/2016 “Hippocampal processing of prediction error enhances auditory fear memory” Anatomy and Neurobiology Departmental Seminar, Boston, MA.

### Bibliography:

#### Original, Peer Reviewed Articles:

1. Ugwechi, A.\*, **Lim, S.H.\***, Liu, E., Baratta, M., and Goosens, K.A. (2017). Hippocampal processing of ambiguity enhances fear memory. *Psychological Science* 28 (2), 143-161. \*Co-first author
2. Harmatz, E.S., Stone, L., **Lim, S.H.**, Lee, G., McGrath, A., Gisabella, B., Peng, X., Kosoy, E., Yao, J., Liu, E., Machado, N.J., Weiner, V.S., Slocum, W., Cunha R. A., and Goosens, K.A. (2017). Central ghrelin resistance permits the overconsolidation of fear memory. *Molecular Psychiatry* 81(12), 1003-1013.
3. Chen, J.R., **Lim, S.H.**, Chung, S.C., Lee, Y.F., Wang, Y.J., Tseng, G.F., and Wang, T.J. (2017). Reproductive experience modified dendritic spines on cortical pyramidal neurons to enhance sensory perception and spatial learning in rats. *Experimental Animals* 66(1), 61-74.
4. Gisabella, B., Farah, S., Peng, X., Burgos-Robles, T., **Lim, S.H.**, and Goosens, K.A. (2016). Growth hormone biases amygdala network activation after fear learning. *Translational Psychiatry* doi:10.1038/tp.2016.203

5. Chen, L.J., Chuang, L., Huang, Y.H., Zhou, J., **Lim, S.H.**, Lee, C.I., Lin, W.W., Lin, T.E. et al. (2015) MicroRNA mediation of endothelial inflammatory response to smooth muscle cells and its inhibition by atheroprotective shear stress. *Circulation Research* 116, 1157-1169
6. **Lim, S.H.**, Wang, T.J., Tseng, G.F., Lee, Y.F., Huang, Y.S., Chen, J.R., and Cheng, C.L. (2013). The distribution of muscles fibers and their types in the female rat urethra: cytoarchitecture and 3-dimensional reconstruction. *The Anatomical Record* 296, 1640-1649.
7. Zhou, J., Lee, P.L., Lee, C.I., Wei, S.Y., **Lim, S.H.**, Lin, T.E., Chien, S., and Chiu, J.J. (2013). BMP receptor – integrin interaction mediates responses of vascular endothelial Smad 1/5 and proliferation to disturbed flow. *Journal of Thrombosis and Haemostasis* 11, 741-755.
8. Chen, J.R., Wang, T.J., **Lim, S.H.**, Wang, Y.J., and Tseng, G.F. (2012). Testosterone modulates the dendritic spines of somatosensory cortical pyramidal neurons via androgen receptors. *Brain Structure and Function* 218, 1407-1417.
9. Chen, L.J., **Lim, S.H.**, Yeh, Y.T., Lien, S.C., and Chiu, J.J. (2012). Roles of microRNAs in atherosclerosis and restenosis. *Journal of Biomedical Science* 19, 79-92.
10. Lee, D.Y., Lee, C.I., Lin, T.E., **Lim, S.H.**, Zhou, J., Tseng, Y.C., Chien, S., and Chiu, J.J. (2012). Role of histone deacetylases in transcription factor regulation and cell cycle modulation in endothelial cells in response to disturbed flow. *Proceedings of the National Academy of Sciences of the United States of America* 109, 1967-1972.
11. Yeh, Y.T., Lee, C.I., **Lim, S.H.**, Chen, L.J., Wang, W.L., Chuang, Y.J., and Chiu, J.J. (2012). Convergence of physical and chemical signaling in the modulation of vascular smooth muscle cell cycle and proliferation by fibrillar collagen-regulated P66Shc. *Biomaterials* 33, 6728-6738.
12. Zhou, J., Lee, P.L., Tsai, C.S., Lee, C.I., Yang, T.L., Chuang, H.S., Lin, W.W., Lin, T.E., **Lim, S.H.**, Wei, S.Y., et al. (2012). Force-specific activation of Smad1/5 regulates vascular endothelial cell cycle progression in response to disturbed flow. *Proceedings of the National Academy of Sciences of the United States of America* 109, 7770-7775.
13. Zhou, J., **Lim, S.H.**, and Chiu, J.J. (2011). Epigenetic regulation of vascular endothelial biology/pathobiology and response to fluid shear stress. *Cellular and Molecular Bioengineering* 4, 560-578.

### **Proceedings of Meetings:**

1. **Lim, S.H.** and Goosens, K.A. (2017). Contingency Degradation in Associative Fear Conditioning is Processed by Hippocampus. Henry Russek Student Achievement Day
2. **Lim, S.H.** and Goosens, K.A. (2017). Unpredictable Aversive Events Enhance Fear Memory Formation. Selected Blitz Talk for Boston Psychology Graduate Student Symposium
3. **Lim, S.H.** and Goosens, K.A. (2016). Hippocampal processing of prediction error enhances associative fear memory. Henry Russek Student Achievement Day
4. **Lim, S.H.**, Lee, Y.F., Wang, T.J. and Chen, J.R. (2013). The role of miR-708 in modulation of testosterone on spine plasticity of hippocampal CA1 pyramidal neurons. Annual Meeting of Society for Neuroscience in San Diego
5. Chen, L.J., **Lim, S.H.**, and Chiu, J.J. (2012). Roles of microRNAs in endothelial-smooth muscle cell interaction

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under static condition and in response to shear stress. National Health Research Institutes Research day

6. **Lim, S.H.**, and Chiu, J.J. (2011). Development of novel animal models in vascular mechanobiological study. National Health Research Institutes Research day
7. **Lim, S.H.**, Chen, J.R., and Wang, T.J. (2008). Reproductive experience altered rat sensory perception and spatial memory performance in accompany with an increase of dendritic spines on sensorimotor cortical and hippocampal neurons. The 23th Joint Annual Conference of Biomedical Science
8. **Lim, S.H.**, Wang, T.J., Lee, Y.F., Chen, J.R., and Cheng, C.L. (2007). 3D morphological structure of the female rat urethra. International Symposium on Biomedical Engineering
9. Liao, J.M., Lee, S.D., **Lim, S.H.**, Yang, C.M., Liou, Y.M., Peng, M.L., Lin, C.F., and Lin, T.B. (2005). Effects of cyclophosphamide on pelvic-to-urethral reflex plasticity induced by bladder saline distention. The 20th Joint Annual Conference of Biomedical Science
10. Chen, J.R., Cheng, C.L., **Lim, S.H.**, Lee, Y.F. (2004). Effect of pudendal nerve injury of the female urethra. Workshop Taichung Veterans General Hospital/National Chung Hsing University Joint Research Program