

## Lyndon Duong

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CONTACT INFO	4 Washington Pl. Rm 1031 New York, NY, USA 10003	lyndonduong@nyu.edu lyndonduong.com
EDUCATION	<b>Doctor of Philosophy</b> , Neural Science New York University, New York, NY, USA Thesis: Models of statistical adaptation in neural circuits Advisors: Eero Simoncelli, David Heeger  <b>Master of Science</b> , Physiology and Pharmacology University of Western Ontario, London, ON, Canada Thesis: A normalization circuit of attention in primate lateral prefrontal cortex Advisor: Julio Martinez-Trujillo  <b>Bachelor of Science</b> , Joint Major in Physiology and Physics McGill University, Montreal, QC, Canada Dean's Multidisciplinary Undergraduate Research List	Current  Jun 2018  May 2014
WORK EXPERIENCE	<b>Manager, Projects and Operations</b> Ben Graham Centre for Value Investing, Ivey Business School <ul style="list-style-type: none"><li>• Perform equity valuations and write quarterly reports for endowed investment fund</li><li>• Analyze large financial datasets for behavioural finance academic study</li></ul>	Sep 2016 – Jun 2018
RESEARCH EXPERIENCE	<b>Graduate Researcher</b> Department of Physiology and Pharmacology, University of Western Ontario Supervisor: Julio Martinez-Trujillo, MD, PhD  <b>Undergraduate Research Assistant</b> Department of Physiology, McGill University Supervisor: Julio Martinez-Trujillo, MD, PhD  <b>Undergraduate Research Assistant</b> Department of Physics, McGill University Supervisor: Walter Reisner, PhD	Jan 2015 – Jun 2018  Sep 2013 – May 2014  May 2013 – Sep 2014
TEACHING EXPERIENCE	<b>Graduate Teaching Assistant</b> NEURL-GA.2201 - Mathematical Tools for Neural and Cognitive Science <ul style="list-style-type: none"><li>• Center for Neural Science, New York University</li></ul> <b>Graduate Teaching Assistant</b> Physiology 3130z - Physiology Laboratory <ul style="list-style-type: none"><li>• Nominated for Graduate Student Teaching Award</li><li>• Department of Physiology and Pharmacology, University of Western Ontario</li></ul>	Sep 2019 – Dec 2019  Sep 2015 – Apr 2016
ACTIVITIES & ORGANIZATIONS	<b>English Conversation Program Leader</b> International and Exchange Student Centre, Univ. Western Ontario <ul style="list-style-type: none"><li>• Awarded Certificate of Excellence</li><li>• Taught English and North American culture to groups of International students</li></ul> <b>Head Student Newsletter Editor</b> Ben Graham Centre for Value Investing <ul style="list-style-type: none"><li>• Led small group in creating &amp; editing biannual investment newsletter</li></ul>	Jan 2015 – Jun 2016  Jan 2015 – Jul 2016

### REFEREED JOURNAL PUBLICATIONS

1. Gulli, R.A., **Duong, L.**, Corrigan, B.W., Doucet, G., Williams, S., Fusi, S., Martinez-Trujillo, J.C. “Flexible coding of memory and space in the primate hippocampus during virtual navigation”, *Nature Neuroscience* vol. 23: 103–112, 2020.
2. Doucet, G., Corrigan, B.W., Gulli, R.A., **Duong, L.**, A., Martinez-Trujillo, J.C. “Modulation of local field potentials and neuronal activity in primate hippocampus during saccades.” *Hippocampus*; 30: 192– 209, 2020.
3. **Duong, L.**, Leavitt, M.L., Pieper, F., Sachs, A., Martinez-Trujillo, J.C. “A normalization circuit in the lateral prefrontal cortex facilitates competitive interactions between neurons during the allocation of attention.” *eNeuro* vol. 6,2 ENEURO.0301-18.2019. 15 Apr. 2019.
4. Klotz, A.R., **Duong, L.**, Mamaev, M., de Haan, H., Chen, J., Reisner, W. “Measuring the confinement free energy and effective width of single polymer chains via single molecule tetris.” *Macromolecules*, 48(13), 4742-4747, 2015.
5. Klotz, A.R., Mamaev, M., **Duong, L.**, de Haan, H., Reisner, W. “Correlated Fluctuations of DNA Between Nanofluidic Entropic Traps.” *Macromolecules*, 48 (14), 5028-5033, 2015.

### PRESENTATIONS

#### Oral

1. **Duong, L.**, Leavitt, M.L., Pieper, F., Sachs, A., Martinez-Trujillo, J.C., “Ensemble coding of spatial working memory and attention in primate lateral prefrontal cortex.” Society for Neuroscience. San Diego, CA, USA. November 2018.
2. Martinez-Trujillo, J.C., **Duong, L.**, Abbass, M., Pieper, F., Sachs, A., “Temporal ensemble code of visuospatial attention in primate lateral prefrontal cortex.” Society for Neuroscience. Washington D.C., USA. November 2017.

#### Posters

1. **Duong, L.**, Gulli, R.A., Corrigan, B.W., Leavitt, M.L., Doucet G., Sachs, A., Martinez-Trujillo, J.C. “Lateral prefrontal cortex single neuron and ensemble activity during associative learning in virtually navigating primates.” Society for Neuroscience. Washington D.C., USA. November 2017.
2. **Duong, L.**, Abbass, M., Pieper, F., Sachs, A., Martinez-Trujillo, J.C. “Neural network properties are dynamically modulated by attention in primate lateral prefrontal cortex.” Society for Neuroscience. San Diego, CA, USA. November 2016.
3. **Duong, L.**, Leavitt, M.L., Pieper, F., Sachs, A., Martinez-Trujillo, J.C. “Construction of neural ensembles for optimal decoding of attention in primate prefrontal cortex.” Center for Visual Science Symposium: The Future of Attention. Rochester, NY, USA. May 2016.
4. **Duong, L.**, Pieper, F., Sachs, A., Martinez-Trujillo, J.C. “Effects of neural ensemble size and composition on the decoding of attention in primate lateral prefrontal cortex.” Vision Sciences Society. St. Pete Beach, FL, USA. May 2016.
5. **Duong, L.**, Abbass, M., Pieper, F., Sachs, A., Martinez-Trujillo, J.C. “Attention and normalization in area 8a of the primate dorsolateral prefrontal cortex are cell type dependent.” Society for Neuroscience. Chicago, IL, USA. October 2015.
6. **Duong, L.**, Tremblay, S., Pieper, F., Martinez-Trujillo, J.C. “Correlation between the effects of attention and response normalization in prefrontal area 8A neurons shows cell type dependence.” Vision Sciences Society. St. Pete Beach, FL, USA. May 2015.