Timothy D. Oleskiw

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EMPLOYMENT

Postdoctoral Research Scientist Howard Hughes Medical Institute, 2/2017-present
Advisor: Dr. Eero Simoncelli, Laboratory of Computational Vision, New York University
Co-advisor: Dr. J. Anthony Movshon, Visual Neuroscience Laboratory, New York University

EDUCATION

Ph.D. Applied Mathematics University of Washington, 12/2016
Advisors: Dr. Anitha Pasupathy, Dr. Wyeth Bair, & Dr. Eric Shea-Brown

M.Sc. Applied Mathematics University of Washington, 10/2013

M.Sc. Computer Science York University, 10/2010
Advisor: Dr. James H. Elder

B.Sc. Hons. Mathematics & Computer Science University of Regina, 4/2007
Graduated with honours *summa cum laude* minoring in philosophy

AWARDS & SCHOLARSHIP

2013-2014 **Natural Sciences and Engineering Research Council of Canada PGS-D**
NSERC Postgraduate Scholarship held at foreign institution (CAD $42,000)

2011-2012 **Computational Neuroscience Training Grant**
University of Washington (Full Ph.D. Funding)

2008-2010 **Natural Sciences and Engineering Research Council of Canada CGS-M**
Alexander Graham Bell Canadian Graduate Scholarship (CAD $35,000)

2009 **Best Student Poster Award**
GEOIDE Annual Scientific Conference 2009 Poster Session

2008 **York University Entrance Scholarship**

2006, 2007 **NSERC Undergraduate Student Research Award**

2003-2007 **Undergraduate Awards**
University of Regina Academic Silver Scholarship, 2005-2007; University of Regina Dean's Honours List 2003-2007; Campion College Dean's Honours List, 2003-2007; Campion College Alpha Sigma Nu Scholarship, 2006; Centennial Merit Scholarship, 2003

PROFESSIONAL CONTRIBUTION

Refereed Journal Publications

Oleskiw, T. D., Nowack, A., Pasupathy, A. Joint coding of shape and blur in area V4. *Nature Communications*, 9(1):466, January 2018.

Oleskiw, T. D., Bair, W., Pasupathy, A. Spectral receptive fields do not explain tuning for boundary curvature in V4. *Journal of Neurophysiology*, 112(9), November 2014, pp. 2114-22.

Elder, J. H., **Oleskiw, T. D.**, Yakubovich, A., and Peyré, G. *Editor's choice* article, recommended by Sven Dickinson. On growth and formlets: sparse multi-scale coding of planar shape. *Image and Vision Computing* 31-1, January 2013, pp. 1-13.

Papers in Published Conference Proceedings (Refereed)

Oleskiw, T. D., Elder, J. H., and Peyré, G. On growth and formlets: sparse multi-scale coding of planar shape. In *2010 IEEE CVPR* (June 2010), IEEE, pp. 459-466.

Accepted Abstracts

Ziemba, C., **Oleskiw, T.D.**, Perez, R., Simoncelli, E., Movshon J.A. Selectivity of contextual modulation in macaque V1 and V2. *Neuroecience 2017.* Washington, DC.

Oleskiw, T. D., Nowack, A., Pasupathy, A., Joint coding for shape and blur area v4. *COSYNE 2016.* Salt-Lake City, UT.

Oleskiw, T. D., Bair, W., Shea-Brown, E., Divisive inhibition via input timescale *COSYNE 2015.* Salt-Lake City, UT.

Oleskiw, T. D., Nowack, A., Pasupathy, A., Selectivity for shape and blur in area v4. *COSYNE 2014.* Salt-Lake City, UT.

Oleskiw, T. D., Pasupathy, A., Bair W. Re-examining spectral receptive fields and shape selectivity in area v4. *Neuroscience 2011.* Washington, DC.

Elder, J. H., **Oleskiw, T. D.**, Graf, E. W., Adams, W. J. Contour grouping and natural shapes: beyond local cues. *Journal of Vision* 10, 7 (August 2010), 1171.

TEACHING EXPERIENCE

2018	**Laboratory Teaching Assistant** New York University Graded assignments, held office hours, lectured, and conducted electrophysiological experiments for *NEURL-UA 221 Behavioral & Integrative Neuroscience.*
2012-2016	**Teaching Assistant** University of Washington Graded assignments, organized reading courses, and lectured for *PBIO 545 Quantitative Methods in Neuroscience*, *CSE 311 Foundations of Computing I*, and *AMATH 342 Introduction to Neural Coding and Computation.*
2009-2010	**Teaching Assistant** York University Assisted laboratory sessions, Graded assignments, and invigilated exams for the computer science and engineering courses *CSE 2031 Software Tools* and *CSE 3101 Design and Analysis of Algorithms.*
2006-2007	**Laboratory Instructor** University of Regina Prepared and instructed laboratory sessions for *CS 110 Programming and Problem Solving* and graded assignments for *MATH 305 Introductory Mathematical Analysis* and *MATH 217 Differential Equations and Series*