

ROSS GOROSHIN

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EDUCATION

- New York University, New York, NY** *2010 - 2015*
Ph.D. in Computer Science
Adviser: Yann LeCun
Primary Research: Unsupervised Deep Feature Learning in Computer Vision
- Georgia Institute of Technology, Atlanta, GA** *2006 - 2008*
M.S. in Electrical Engineering
Adviser: Patricio Vela
Masters Thesis: Obstacle Detection using a Monocular Camera
- Concordia University, Montreal, QC** *2002 - 2006*
B.Eng. in Electrical Engineering, Graduated with Distinction
Capstone Project: “Realtime Visual Tracking System” 2nd Place Winner
- Vanier College, Montreal, QC** *2000 - 2002*
Diploma of College Studies, Pure and Applied Science (Honors Program)
Honor Roll 2002

EMPLOYMENT

- Research Scientist – Google Brain, Montreal, Canada**
July 2017 - Present
- Research Scientist – Google DeepMind, London, United Kingdom**
February 2016 - July 2017
Research areas: Deep Learning, unsupervised/reinforcement learning, computer vision
- Research Engineer – NAVSEA/ONR, Panama City, FL**
Full Time 2008 - 2010, Summer Intern 2011-2013
Naval Surface Warfare Center-Panama City Division, Computational Science Branch. Worked on Office of Naval Research (ONR) sponsored projects in collaboration with academia.

JOURNAL PUBLICATIONS

- Ross Goroshin, Quyen Huynh, and Hao-Min Zhou. “Approximate solutions to several visibility optimization problems.” *Communications in Mathematical Sciences* 9, no. 2 (2011).

CONFERENCES AND WORKSHOPS

- Mirowski, P., Pascanu, R., Viola, F., Soyer, H., Ballard, A., Banino, A., Denil, M., Goroshin, R., Sifre, L., Kavukcuoglu, K. and Kumaran, D., 2016. Learning to navigate in complex environments. arXiv preprint arXiv:1611.03673. *ICLR 2017, Conference*
- Goroshin, R., Mathieu, M.F. and LeCun, Y., 2015. Learning to linearize under uncertainty. In *Advances in Neural Information Processing Systems* (pp. 1234-1242). *NIPS 2015*
- Goroshin, R., Bruna, J., Tompson, J., Eigen, D. and LeCun, Y., 2015. Unsupervised learning of spatiotemporally coherent metrics. In *Proceedings of the IEEE International Conference on Computer Vision* (pp. 4086-4093). *ICCV 2015*
- Tompson, J., Goroshin, R., Jain, A., LeCun, Y. and Bregler, C., 2015. Efficient object localization using convolutional networks. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (pp. 648-656). *CVPR 2015*

- Zhao, J., Mathieu, M., Goroshin, R., and LeCun, Y. Stacked what-where autoencoders. arXiv preprint arXiv:1506.02351, 2015.
- Goroshin, R., Bruna, Szlam, A. J., Tompson, J., Eigen, D. and LeCun, Y. Unsupervised Feature Learning from Temporal Data, *Deep Learning Workshop, NIPS 2014*
- Ross Goroshin and Yann LeCun. “Saturating auto-encoders.” arXiv:1301.3577. *ICLR 2013, Conference*
- Ross Goroshin. “Visibility Optimization using Variational Methods”, SIAM Conference on Imaging Science 2010. Chicago, IL
- Jason C. Isaacs and Ross Goroshin. “Automated cable tracking in sonar imagery.” In IEEE OCEANS 2010, pp. 1-7. Seattle, WA
- Jason C. Isaacs and Ross Goroshin. “Tracking cables in sonar and optical imagery.” In Applied Imagery Pattern Recognition Workshop (AIPR), 2010 IEEE 39th, pp. 1-7. Washington, DC
- Jason C. Isaacs and Ross Goroshin. “Automated cable detection in sonar imagery.” In Systems, Man and Cybernetics, 2009. IEEE International Conference, pp. 2745-2750. San Antonio, TX

INVITED TALKS, SYMPOSIUMS, AND SUMMER SCHOOLS

- Invited talk: “Unsupervised Feature Learning using Video” VASC Seminar, Robotics Institute, Carnegie Mellon University, November 2015
- Deep Learning Summer School, University of Montreal, August 2015
- Deep Learning and Feature Learning Graduate Summer School at The Institute for Pure and Applied Mathematics, UCLA, Los Angeles, California, July 2012
- Invited Talk: “Solutions to Visibility Optimization Problems using Variational Methods in a Level-Set Framework”. Norbert Wiener Center for Harmonic Analysis, Department of Mathematics, University of Maryland, October 2009. College Park, Maryland
- Numerous Presentations for the DoD including Office of Naval Research (ONR) Review 2009, Arlington, VA

TECHNICAL

Research Areas	Unsupervised Learning, Deep/Machine Learning, Computer Vision, Dictionary Learning, Sparse Inference, Variational Methods, Level-Set Method, PDEs
Computer Languages	Python/TensorFlow, Lua/Torch7, Matlab, C++
Tools	Google Infrastructure, Git, Vim, LaTeX

PERSONAL

Hobbies	Cycling, Running, Badminton, SCUBA diving, Drawing
Languages	English, Russian (native), French (5 years)