

Dennis G Wilson

PhD candidate at IRIT, University of Toulouse, France
dennis@d9w.xyz

EDUCATION

- 2016-present PhD in the VORTEX team, IRIT, University of Toulouse, France
Studying artificial evolution and learning, advised by Sylvain Cussat-Blanc and Hervé Luga
- 2010-2014 BSci in Electrical Engineering and Computer Science, MIT, Cambridge, USA

POSITIONS

- 2016-present Lecturer at University of Toulouse
Teaching Master's classes in Machine Learning and in Databases
- 2014-2016 Software engineer at Infinidat LTD, Israel
Full time position in infrastructure development for data storage systems
- 2013 Research intern at IRIT, University of Toulouse, France
Semester research project in wind farm layout optimization using genetic regulatory networks
- 2012-2013 Researcher at MIT Research Lab for Electronics, Center for Excitonics
One year research project on spin-coat manufacturing for exciton-based organic solar cells
- 2011-2014 Researcher at MIT Computer Science and Artificial Intelligence Lab, ALFA group
Optimization using distributed evolutionary algorithms and genetic regulatory networks and data classification with genetic algorithms, advised by Kalyan Veeramachaneni and Una-May O'Reilly

SKILLS

Languages: Python, Julia, C++, Octave (MATLAB), R, Scala, Java, Scheme. English, French, Hebrew

Frameworks: TensorFlow, Keras, Caffe, scikit-learn, Pandas, MXNet

Methods: CGP, ANNs, GRNs, GAs, NEAT, CMA-ES, SVMs, SGD, Adam, GANs

Systems: Linux (Arch), AWS, Slurm, OpenStack, PostgreSQL, ZFS

PUBLICATIONS

- 2017 DG Wilson, J Disset, S Cussat-Blanc, Y Duthen, H Luga. Learning aquatic locomotion with animats. *Proceedings of the 14th European Conference on Artificial Life 2017*.
- 2017 DG Wilson. The Ethics of Automated Behavioral Microtargeting. *AI Matters, Volume 3*.
- 2017 J Disset, DG Wilson, S Cussat-Blanc, S Sanchez, H Luga, Y Duthen. A comparison of genetic regulatory network dynamics and encoding. *Proceedings of the 2017 Genetic and Evolutionary Computation Conference*.
- 2017 JF Miller, DG Wilson. A developmental artificial neural network model for solving multiple problems. *Proceedings of the 2017 Genetic and Evolutionary Computation Conference*.
- 2016 DG Wilson, S Cussat-Blanc, H Luga. The Evolution of Artificial Neurogenesis. *Proceedings of the 2016 Genetic and Evolutionary Computation Conference Companion*.
- 2014 DG Wilson, S Cussat-Blanc, K Veeramachaneni, UM O'Reilly, H Luga. A continuous developmental model for wind farm layout optimization. *Proceedings of the 2014 Genetic and Evolutionary Computation Conference*.
- 2013 DG Wilson, E Awa, S Cussat-Blanc, K Veeramachaneni, UM O'Reilly. On learning to generate wind farm layouts. *Proceedings of the 2013 Genetic and Evolutionary Computation Conference*.
- 2013 DG Wilson, K Veeramachaneni, UM O'Reilly. Cloud scale distributed evolutionary strategies for high dimensional problems. *European Conference on the Applications of Evolutionary Computation*.