

Dennis Wilson

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EDUCATION

- 2016-present **PhD in the VORTEX team, IRIT, University of Toulouse, France**
PhD candidate studying artificial learning and development [1] [2] [3] [4], lecturing in a course on databases, and giving seminars on deep learning and on the Julia language, advised by Sylvain Cussat-Blanc and Hervé Luga
- 2010-2014 **BSci in Electrical Engineering and Computer Science, MIT, Cambridge, USA**

POSITIONS

- 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 [5]
- 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 [5], [6], [7]
- 2011 **Engineer at Aviation and Missile Research, Development, and Engineering Center, AL, USA**
Summer position in terahertz imaging, configuring optics equipment and developing MATLAB analysis tools

PUBLICATIONS

- [1] Disset, J., Wilson, D., Cussat-Blanc, S., Sanchez, S., Luga, H., & Duthen, Y. (2017, July) A comparison of Gene Regulatory Network dynamics and encoding. Accepted to the *2017 annual conference on Genetic and Evolutionary Computation*.
- [2] Miller J. F., Wilson D. (2017, July) A developmental artificial neural network model for solving multiple problems. Abstract accepted to the *2017 annual Conference on Genetic and Evolutionary Computation*.
- [3] Wilson, D., Cussat-Blanc, S., & Luga, H. (2016, July). The Evolution of Artificial Neurogenesis. In *Proceedings of the 2016 Conference on Genetic and Evolutionary Computation Conference Companion* (pp. 1047-1048). ACM.
- [4] Wilson, D., Cussat-Blanc, S., & Luga, H. (2016, June). Evolving genetic regulatory networks for online neurogenesis. In *Morphogenetic Engineering workshop at Artificial Life XV*.
- [5] Wilson, D., Cussat-Blanc, S., Veeramachaneni, K., O'Reilly, U. M., & Luga, H. (2014, July). A continuous developmental model for wind farm layout optimization. In *Proceedings of the 2014 annual Conference on Genetic and Evolutionary Computation* (pp. 745-752). ACM.
- [6] Wilson, D., Awa, E., Cussat-Blanc, S., Veeramachaneni, K., & O'Reilly, U. M. (2013, July). On learning to generate wind farm layouts. In *Proceedings of the 2013 annual Conference on Genetic and Evolutionary Computation* (pp. 767-774). ACM. Best paper nomination in GDS.
- [7] Wilson, D., Veeramachaneni, K., & O'Reilly, U. M. (2013, April). Cloud scale distributed evolutionary strategies for high dimensional problems. In *European Conference on the Applications of Evolutionary Computation* (pp. 519-528). Springer Berlin Heidelberg.