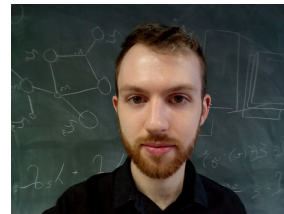


DG Wilson

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Born: April 17, 1991—Indiana, U.S.A.
Nationality: American



EDUCATION

- 2016-present **PhD in the REVA 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 **Researcher 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
- 2011 **Engineer at Aviation and Missile Research, Development, and Engineering Center, AL, USA**
Internship in terahertz imaging, configuring optics equipment and developing MATLAB analysis tools

TEACHING

- 2018 **Computational Intelligence, Lecturer, University of Toulouse**
Designed a new Master's course on Machine Learning as part of a Computational Intelligence unit
- 2016-2018 **Databases, Lecturer, University of Toulouse**
- 2014 **Introduction to Python, Teaching Assistant, MIT**
- 2010 **Introduction to Computer Science, Teaching Assistant, MIT**

ADVISING

- 2018 **Guillaume Boehm**
Undergraduate internship on Virtual Creature Evolution, co-advised by Sylvain Cussat-Blanc
- 2018 **Rayhane Belaroussi, Kim Phuong Pham, Sarune Samoskaite**
Master's project on Machine Learning on the Kaggle platform
- 2017 **Paul Carfantan**
Undergraduate thesis on Image Generation with Deep Neural Networks, co-advised by Sylvain Cussat-Blanc

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, LAMP, PostgreSQL, ZFS

GRANTS, HONORS & AWARDS

- 2017 2nd place, SIGEVO Summer School Competition
- 2017 SIGEVO student representative, ACM Turing Award Celebration
- 2017 Winner, SIGAI Essay Contest
- 2015 CIMI Doctoral Fellowship recipient, France
- 2013 Best paper nomination, GECCO 2013 GDS track

SELECTED PUBLICATIONS

- 2018 DG Wilson, S Cussat-Blanc, H Luga, JF Miller. Evolving simple programs for playing Atari games. *Proceedings of the 2018 Genetic and Evolutionary Computation Conference*.
- 2018 DG Wilson, S Rodrigues, C Segura, I Loshchilov, F Hutter, G López Buenfil, A Kheiri, E Keedwell, M Ocampo-Pineda, E Özcan, S Ivvan Valdez Peña, B Goldman, S Botello Rionda, A Hernández-Aguirre, K Veeramachaneni, S Cussat-Blanc. Evolutionary computation for wind farm layout optimization. *Renewable Energy*.
- 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*.
- 2016 D Wilson, S Cussat-Blanc, H Luga. Evolving genetic regulatory networks for online neurogenesis. *Morphogenetic Engineering Workshop at Artificial Life XV*.
- 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*.

INVITED TALKS

- 2018 Evolving simple programs for playing Atari games, REAL lab, IT University of Copenhagen
- 2017 Evolving neural programs for continuous learning, CSAIL, MIT
- 2017 Introduction to the Julia language, IRIT, University of Toulouse
- 2016 Introduction to Deep Learning, IRIT, University of Toulouse
- 2012 Optimization of wind farm turbine placement, MIT Energy Night

ORGANIZATIONS

- 2018 Editorial Board member, Press Start journal
- 2017-2018 Communications Chair, ISAL Student group