Dennis G Wilson, PhD

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https://d9w.github.io



ACADEMIC POSITIONS

2019-present Associate Professor at ISAE-SUPAERO

Associate Professor of Artificial Intelligence and Data Science in the Complex Systems Engineering Department, associated with Supaero Reinforcement Learning Initiative, IRIT and ANITI. Tenure obtained in 2022.

2019 Postdoctoral researcher at University of Toulouse

Research on the application of genetic programming to electrical grid crisis management

2016-2019 Lecturer at University of Toulouse

Teaching Master's classes in Machine Learning and Databases

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

Industry Experience

2019-2021 Co-Founder at Nautilia Computing, Toulouse, France

Artificial Intelligence consulting and services for environment observation and simulation

2014-2016 Software engineer at Infinidat LTD, Israel

Full time position in infrastructure development for data storage systems

EDUCATION

2016-2019 PhD in the REVA team, IRIT, University of Toulouse, France

"Evolving Principles of Artificial Neural Design," advised by Sylvain Cussat-Blanc and Hervé Luga

2010-2014 BSci in Electrical Engineering and Computer Science, MIT, Cambridge, USA

TEACHING

2019-present Artificial Intelligence and Data Science, ISAE-SUPAERO

Head of a 240 hour Master's level program on AI and data science with 60 students

2018-2019 Computational Intelligence, Lecturer, University of Toulouse

2016-2018 Databases, Lecturer, University of Toulouse

Introduction to Python, Teaching Assistant, MIT

Advising

2023-present Estelle Chigot

PhD in generative AI for learning with synthetic data, with ANITI and Airbus

2022-present Paul-Antoine le Tolguenec

PhD in reinfocement learning for autopilot testing, with ANITI and Airbus

2021-2023 Valerii Sukhorukov

Postdoctoral research in modelling neural cultures with ANNs, with IRIT

2021-2022 Erwan Lecarpentier

Postdoctoral research in genetic programming for interpretable control, with IRT and IRIT

2021-present Paul Templier

PhD in evolutionary strategies for neuroevolution

2020-present Mahmoud Al Najar

PhD in AI for coastal geography estimation and forecasting, with the CNES and IRD

2020-present Kaitlin Maile

2018

2017

PhD in developmental neural networks, with IRIT

Grants, Honors & Awards

2022	CIFRE thesis grant with Airbus
2021	CIFRE thesis grant with ANITI and Airbus
2020	Winner, GECCO competition on agent control in DOTA
2020	SIGEVO Best Dissertation Award
2019	Thesis grant from the CNES on shoreline forecasting
2019	Thesis grant from La Région Occitaine and ISAE-Supaero on neuroevolution
2017	SIGEVO student representative, ACM Turing Award Celebration
2017	Winner, SIGAI Essay Contest on Ethics and AI
2015	CIMI Doctoral Fellowship recipient, France
2013	Best paper nomination, GECCO 2013 GDS track
	Invited Talks
2023	Keynote, Evolutionary Reinforcement Learning Workshop, GECCO 2023
2021	Evolutionary Reinforcement Learning, Reinforcement Learning Virtual School
2018	Julia for Machine Learning, ANF APSEM 2018, CNRS, Toulouse

Evolving simple programs for playing Atari games, IT University of Copenhagen

Organizational Roles

2022-present	Organizer, Graph Genetic Programming Workshop
2021-present	Mentor, Climate Change AI Workshop
2021-2023	ISAE Representative, AI for the Environment Committee (ENVIA)
2021-2022	Secretary, ISAL Diversity, Equity, and Inclusion Committee
2019-2021	Chair, Complex Systems Track, GECCO
2018-2020	Organizer, Developmental Neural Networks Workshop
2017-2018	Communications Chair, ISAL Student group

Evolving neural programs for continuous learning, CSAIL, MIT