William La Cava, PhD

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CV · Github · Google Scholar

Skills

10 years of research experience in data science and machine learning. 4 years of research experience in biomedical informatics. Interested in machine learning fairness and interpretability. Work extensively with electronic health records and omics data. *Languages*: Modern C++, Python, R. *Tools*: Docker, Jupyter Notebooks, Scikit-Learn, TensorFlow, PLINK, Shogun. *Systems*: GNU/Linux.

Research Experience

2020 -	**Research Associate, University of Pennsylvania**
	Institute for Biomedical Informatics
2019 - 2020	**Consultant, National Institute on Aging, National Institutes of Health**
	Division of Geriatrics and Clinical Gerontology
	Multi-omics data integration for longevity-related outcomes
2016 - 2020	**Postdoctoral Fellow, University of Pennsylvania**
	Advisor: Jason H. Moore
	Institute for Biomedical Informatics
	Fellow, Warren Center for Network and Data Sciences
2012 - 2016	**PhD Student, University of Massachusetts Amherst**
	Committee: Kourosh Danai, Lee Spector, Matthew Lackner
	Fellow, NSF IGERT Offshore Wind Energy Program
Jun–Aug 2015	**Visiting Researcher, Laboratory of Agent Modeling, University of Lisbon**
	Hosts: Sara Silva, Leonardo Vanneschi
	Multiclass classification of complex systems using genetic programming
2010 - 2012	**Research Scientist, National Renewable Energy Laboratory (NREL)**
	Supervisors: Paul Veers, Jonathan Keller
	Wind turbine field testing, numerical modeling, and data analysis
2008 - 2010	**Lead Engineer of Mechanical Power Systems, Cornell 100+ MPG Team**
	Advisor: Albert George
	Drivetrain design, fabrication and testing for a hybrid-electric vehicle that competed in the Automotive X-Prize and won the 2011 Green Grand Prix, achieving over 120 MPG equivalent
2007 - 2008	**Independent Research, Cornell Computational Synthesis Laboratory**
	Advisor: Hod Lipson
	Robotics, path planning and artificial intelligence

Education

2012 - 2016	Ph.D., Mechanical Engineering, University of Massachusetts Amherst
2009 - 2010	M.Eng., Mechanical Engineering, Cornell University
2005 - 2009	B.S., Mechanical Engineering, Cornell University