

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 <i>Advisor: Jason H. Moore</i> Institute for Biomedical Informatics Fellow, Warren Center for Network and Data Sciences
2012 - 2016	PhD Student, University of Massachusetts Amherst <i>Committee: Kourosh Danai, Lee Spector, Matthew Lackner</i> Fellow, NSF IGERT Offshore Wind Energy Program
Jun–Aug 2015	Visiting Researcher, Laboratory of Agent Modeling, University of Lisbon <i>Hosts: Sara Silva, Leonardo Vanneschi</i> Multiclass classification of complex systems using genetic programming
2010 - 2012	Research Scientist, National Renewable Energy Laboratory (NREL) <i>Supervisors: Paul Veers, Jonathan Keller</i> Wind turbine field testing, numerical modeling, and data analysis
2008 - 2010	Lead Engineer of Mechanical Power Systems, Cornell 100+ MPG Team <i>Advisor: Albert George</i> 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 <i>Advisor: Hod Lipson</i> 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