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EDUCATION:

Johns Hopkins University, Baltimore, MD. 3rd Year PhD Student, Applied Math and Statistics 2021-P • Advisor: Soledad Villar	resent
Rensselaer Polytechnic Institute (RPI), Troy, NY. B.S. in Computer Science and Mathematics • GPA: 3.89, Graduated Magna Cum Laude	2018
PUBLICATIONS: * indicates equal contribution Journal Publications:	
• MarkerMap: nonlinear marker selection for single-cell studies, W.G. Gregory*, N. Sarwar*, G Kevrekidis*, S. Villar, B. Dumitrascu, NPJ Systems Biology and Applications.	i.A. 2024
 Workshop Papers: Robust emulator for compressible navier-stokes using equivariant geometric convolutions, W. Gregory, D.W. Hogg, K.W.K. Wong, and S. Villar. NeurIPS ML4PS workshop. Won Best Paper Award for the ML4PS Workshop 	7.G. 2024
 Learning equivariant tensor functions with applications to sparse vector recovery, W.G. Greg Tonelli-Cueto, N.F. Marshall, A.S. Lee, S. Villar, <u>arXiv:2406.01552</u> Equivariant geometric convolutions for emulation of dynamical systems, W.G. Gregory, D.W. Hogg, B. Blum-Smith, M.T. Arias, K.W.K. Wong, S. Villar, <u>arXiv:2305.12585</u> 	gory, J. 2024 2024
 INVITED TALKS AND WORKSHOPS: Princeton Machine Learning Theory Summer School BIRS-CMO Mathematics of Deep Learning Workshop Machine Learning for Science: Mathematics at the Interface of Data-driven and Mechanistic Modelling, Mathematisches Forschungsinstitut Oberwolfach Workshop 2324 Carl-Zeiss-Stiftung Summer School, Scientific Machine Learning for Astrophysics AMS Special Session on Harmonic Analysis and its Applications to Signals and Information AMS Spring Sectional Meeting 	2023 2023
 GRANTS AND AWARDS: NeurIPS ML4PS Best Paper Award Duncan Research Award, Travel Grant to attend NeurIPS US Junior Oberwolfach Fellow, Travel Award \$1000 RPI IDEA Datathon, First Place Team \$1500 RPI IDEA Datathon, Honorable Mention Team \$500 	2024 2024 2023 2018 2017
TEACHING AND MENTORSHIP: Johns Hopkins University Instructor, HEART: Improving Climate Change Models with Machine Learning (EN.500.111) Graduate Teaching Assistant, Software Engineering for Data Science (EN.553.689) WISE Mentor, Project "Charged Particles Machine Learning Emulator" WISE Mentor, Project "Detecting Gerrymandering Using Computer Algorithms" Graduate Teaching Assistant, Topics in Trustworthy Machine Learning (EN.553.799) Graduate Teaching Assistant, Multilinear Algebra (EN.553.694) Rensselaer Polytechnic Institute	2024 2024 2024 2022 2022 2021

2015-2018

• Undergraduate Teaching Assistant, Data Structures (CS 1200)

PROFESSIONAL EXPERIENCE:

Cut+Dry, San Francisco, CA Senior Software Engineer Software Engineer	2020-2021 2018-2020
U.S. Department of Defense, MD Computer Science Intern	2017
General Dynamics Mission Systems, Taunton, MA Software Quality Assurance Intern	2016