Andrew Warren

Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213

■ awarren1@andrew.cmu.edu | 👚 andrew-warren.github.io

Education		
Philosophy)	on University Applied Logic (Joint Computer Science, Mathematical Sciences, . Dejan Slepčev	Pittsburgh, PA May 2022 (expected,
Carnegie Mello MS MATHEMATIO • Advisor: Prof	•	Pittsburgh, PA May 2019
Reed College BA MATHEMATIC • Honors thesi	cs s advisor: Prof. Thomas Wieting	Portland, OF May 2014
Other Affili	ations	
Fall 2021 Fall 2014 Summer 2010-2012	Visiting Graduate Student, Simons Institute for the Theory of Computing, UC Berkeley Research Assistant, Center for Advanced Computing, Reed College Research Assistant, Centre for Molecular and Materials Science, TRIUMF National Laboratory	
Publication	ns	
Published		
	ew , 2021. Fluctuation bounds for ergodic averages of amenable groups. <i>Bullet</i> appear. arXiv:2107.02403.	tin of the London Mathematica
SUBMITTED		
Warren, Andre	w, 2021. Wasserstein conditional independence testing. arXiv:2107.14184.	
In Preparat	ION	
Warren, Andre	w, with Dejan Slepčev. Metric properties and local limit of nonlocal Wassersto	ein distances. Preprint.
Presentation	ons	
CONFERENCE	PRESENTATIONS	

- January 2022. (Topic to be confirmed). Invited talk, Joint Mathematics Meeting of the American Mathematical Society, Seat-
- July 2021. Wasserstein Conditional Independence Testing. Contributed poster, Geometry and Topology meets Data Analysis and Machine Learning (GTDAML) 2021.
- April 2019. Fluctuations of Amenable Ergodic Averages. Contributed talk, Workshop on Dynamical Systems and Related Topics, University of Maryland (College Park).
- June 2018, Uniform Metastability for Ergodic Averages of Amenable Groups. Contributed poster, Canadian Mathematical Society Summer Meeting, Fredericton, New Brunswick.

SEMINAR TALKS

April 2021. Natural Gradient Descent. CMU-SIAM working group seminar, Pittsburgh.

March 2021. Parametrized Measure Models. CMU-SIAM working group seminar, Pittsburgh.

December 2020. Wasserstein Gradient Flows, Chi-squared Divergence, and Stein Variational Gradient Descent. CMU Center for Nonlinear Analysis working group seminar, Pittsburgh.

November 2020. An Optimal Control Perspective on Deep Learning. CMU-SIAM working group seminar, Pittsburgh.

November 2019. Continuum Approximations for Wide Neural Networks and Gradient Descent. CMU statistics and machine learning seminar, Pittsburgh.

Teaching Experience _____

Spring 2021	Game Theory, Teaching Assistant	CMU
Fall 2020	Revolutions in Science, Teaching Assistant	CMU
Spring 2020	Game Theory, Teaching Assistant	CMU
Fall 2018	Formal Logic, Teaching Assistant	CMU
Spring 2018	The Nature of Reason, Teaching Assistant	CMU
Fall 2016	Rationalism and Empiricism, Teaching Assistant	CMU
Spring 2016	The Nature of Reason, Teaching Assistant	CMU
Summer 2015	Astrophysics, The Summer Science Program, Lead Teaching Assistant	Boulder, CO
Summer 2014	Astrophysics, The Summer Science Program, Teaching Assistant	Montecito, CA
2012-2014	Reactor Training Program, Reed Research Reactor, Instructor	Reed

Service _____

Spring 2021 - Departmental Diversity, Equity, and Inclusion Committee, Graduate student

present co-representative

2017 - 2019 Department Colloquium, Co-organizer