Guillaume Wang

Updated September 26, 2024

Email : guillaume.wang	g@epfl.ch	GitHub: //guillaumew16	Phone : +33 6 95 86 65 87	
Research interests	Optimization	, theory of machine learning, optim	al transport	
Education	EPFL		Lausanne, Switzerland	
	PhD in Mathe	ematics	2021 – present	
	Advisor: Léna	aïc Chizat		
	ETH Zurich		Zurich, Switzerland	
	MSc in Comp	uter Science	2019 - 2021	
	GPA: 5.80 (ma	ax: 6, min: 1).		
	École polyte	chnique	Paris-Saclay, France	
	Cycle Ingénie	eur polytechnicien	2016 - 2019	
	(Applied Mat	hematics, Computer Science)		
	GPA: 3.87 out	of 4.		
Publications (* = equal contribution)	A higher-order Otto calculus approach to the Gaussian completely monotone conjecture Guillaume Wang <i>arXiv preprint, 2024</i>			
	Mean-Field Langevin Dynamics for Signed Measures via a Bilevel Ap- proach			
	arXiv preprint	t, 2024. To appear as NeurIPS 2024 st	potlight	
	Local Convergence of Gradient Methods for Min-Max Games under Partial Curvature Guillaume Wang, Lénaïc Chizat Advances in Neural Information Processing Systems (NeurIPS), 2023			
	An Exponentially Converging Particle Method for the Mixed Nash Equilibrium of Continuous Games Guillaume Wang, Lénaïc Chizat arXiv preprint, 2022. To appear in Open Journal of Mathematical Optimization			
	Tight bounds for minimum ℓ ₁ -norm interpolation of noisy data Guillaume Wang*, Konstantin Donhauser*, Fanny Yang International Conference on Artificial Intelligence and Statistics (AISTATS), 2022			

Research experience	Internship at Statistical Machine Learning group Mentor: Fanny Yang (ETH Zurich)	Summer 2021		
Teaching experience	Teaching assistant, Section de Mathématiques (EPFL)	(* = head TA)		
	*Analysis 2 (sections GC SIE)	Spring 2022		
	*MATH-101(g): Analysis 1	Fall 2022		
	*MATH-450: Numerical Integration of SDEs	Spring 2023		
	MATH-101(g): Analysis 1	Fall 2023		
	*MATH-105(a): Analysis 2	Spring 2024		
	*MATH-100(a): Analysis 1	Fall 2024		
	Bachelor & Master semester projects supervision (EPF	F L) 2022 – present		
Talks and tutorials	An Exponentially Converging Particle Method for the Mixed Nash Equilibrium of			
	Continuous Games	March 2023		
	SIGOPT 2023 International Conference on Optimization (Co	ottbus, Germany)		
	From optimal transport to Wasserstein gradient descent for optimization and			
	sampling	November 2023		
	Internal FLAIR tutorial (EPFL)			
Skills	Programming			
	Proficient in: Python, Julia.			
	Familiar with: Matlab, Java, C, C++, Caml, javascript, GraphQL, PHP.			
	Languages			
	French, Chinese (native); English (fluent); German (convers	ational)		
Service	Reviewing			
	Journal of Machine Learning Research, Mathematics of Operations Research,			
	Optimal Transport and Machine Learning workshop (NeurIPS 2023), NeurIPS 2024			
	Student life at EPFL			
	Webmaster for the EPFL SIAM student chapter (Society for Industrial and Ap-			
	plied Mathematics)			