Gauri Jagatap

gauri@iastate.edu | (515) 708-4938 | gaurijagatap.github.io

EDUCATION	gauri@iastate.edu (515) 708-4938 gaurijagatap.github.io	
	Doctor of Philosophy (PhD) in Functional Evidentering	
AUG 2016 -Present	Doctor of Philosophy (PhD) in Electrical Engineering lowa State University (GPA: 3.88/4)	
AUG 2010	Bachelor of Engineering (Hons.) in Electrical and Electronics Engineering	
-MAY 2015	Master of Science (Hons.) in Physics	
WIAT 2015	BITS Pilani University, India (GPA: 8.69/10)	
Programmii	NG LANGUAGES AND FRAMEWORKS	
MATLAB, Python, C, TensorFlow		
RESEARCH IN		
	ing, Statistical Learning, Learning Theory, Algorithms, Signal Processing, Optimization	
RESEARCH	mg, outside 200 miles (), ringer outside () or great troops of the miles ()	
Aug 2016	PhD student at Iowa State University	
-Present	Advisor: Dr. Chinmay Hegde	
Jul 2015	Phase retrieval using structured sparsity: utilizing underlying structure (such as block and tree sparsities) in signal data to develop fast and sample efficient algorithms for solving absolute-valued inverse problems. Formulated and analyzed bounds on the number of sample points required for invertibility. Analyzed convergence criterion and running time of the algorithm. Applications to sub-diffractive super-resolution imaging. Project Assistant at Indian Institute of Science, Bengaluru, India	
-JUL 2016	Advisor: Dr. Chandra Sekhar Seelamantula	
J	Axial super-resolution of ultrasound images using compressed sensing.	
Aug 2015	Low rank and sparse decomposition of compressively sensed video via Alternating Directions Method of Multipliers (ADMM).	
JOURNAL ARTICLES		
Nov 2017	G. Jagatap and C. Hegde, "Sample-efficient algorithms for recovering structured signals from magnitude-only measurements", <i>under review</i> , IEEE Transactions on Information Theory . (Paper).	
Conference proceedings		
DEC 2017	G. Jagatap and C. Hegde, "Fast, sample-efficient algorithms for structured phase retrieval", Advances in Neural Information Processing Systems (NIPS), pp. 4922-4932, 2017. (Acceptance rate: 20.93%). (Paper).	
Apr 2018	G. Jagatap , Z. Chen, C. Hegde and N. Vaswani, "Sub-diffraction imaging using Fourier ptychography and structured sparsity", <i>to appear</i> , International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2018 (Oral presentation). (Paper).	
Apr 2018	Z. Chen, G. Jagatap, S. Nayer, C. Hegde and N. Vaswani, "Low rank Fourier ptychography", to appear, International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2018. (Paper).	
ARTICLES		
Under review	C. logaton and C. Hagda "Tayyarda cample antimal mathods for calving random guadratic acceptions	
Jan 2018	G. Jagatap and C. Hegde, "Towards sample-optimal methods for solving random quadratic equations with structure", 2018. (Paper).	
Workshops and Symposia		
Jun 2017	G. Jagatap and C. Hegde, "Fast and sample-efficient algorithms for structured phase retrieval", Midwest Machine Learning Symposium (MMLS) 2017.	
DEC 2017	G. Jagatap and C. Hegde, "Phase retrieval using structured sparsity: A sample efficient algorithmic framework", Women in Machine Learning (WiML) 2017 Workshop .	
GRADUATE CO	DURSES	
Iowa State Uni	iversity	
Data Analytics	for ECpE, Deep Machine Learning, Statistical Machine Learning, Convex Optimization, Nonlinear Detection and Estimation Theory, Theory of Probability and Statistics, Applied Linear Algebra	
GRADUATE CO	DURSE PROJECTS	
May 2017	Sparse PCA using truncated and inverse power methods for topic extraction from textual database, EE 525, lowa State University	
May 2017	Non-negative matrix factorization using orthogonal gradient method and successive projection method for topic extraction from textual database, IE 631, lowa State University	
Scholarships and Awards		
Ост 2017	Student Travel Award for NIPS 2017	
Nov 2017	WiML 2017 Travel Grant	
AUG 2016 -	Research Assistant, Iowa State University INSPIRE Scholarship, Department of Science and Technology, Coyt, of India	

2011 - 15 | INSPIRE Scholarship, Department of Science and Technology, Govt. of India

TEACHING ASSISTANTSHIPS

SPRING 2018	EE 525:DATA ANALYTICS IN ELECTRICAL & COMPUTER ENG, lowa State University
SPRING 2014	BITS C386:QUANTUM INFORMATION & COMPUTING, BITS Pilani University
FALL 2012	PHY F110:PHYSICS LABORATORY, BITS Pilani University

PROFESSIONAL ACTIVITIES

Technical reviewer, IEEE Transactions in Signal Processing
Technical reviewer, Women in Machine Learning (WiML) 2017 Workshop
Event coordinator, Data Science Reading Group, lowa State University.

updated on February 24, 2018