## Avah (Indranil) Banerjee

Contact Information	Center for Computation and Technology, LSU Baton Rouge, LA 70808 WEBSITE: cct.lsu.edu/~ibanerjee	703-659-7353 ibanerjee@lsu.edu	
Research Interests	General: Algorithms & Data Structures, Graphs & Combinatorics, Computational Geometry Specific: Approximation hardness of minimization problems, Graph reconfiguration, Sub-graph Connectivity		
CURRENT Position	I am currently a postdoc at the Center for Computation and technology, LSU. As part of my work I am investigating approximation hardness of certain graph partitioning problems. I am informally associated with LSU Dept. of Mathematics.		
Education	George Mason University, Fairfax, VA		
	Ph.D., Computer Science, Summer 2018		
	<ul> <li>Dissertation: Problems On Sorting Sets and Graphs</li> <li>Advisors: Dana Richards, Ph.D</li> </ul>		
	M.S. (4.0), Computer Science, Dec 2015		
	<ul> <li>Thesis: On Maximal Layers of Random Orders</li> <li>Advisor: Dana Richards, Ph.D</li> </ul>		
	National Institute Of Technology, Durgapur, India		
	<ul><li>B.Tech. (8.54/10.0), Electrical Engineering (with honors), M</li><li>Project: SMPS Design Using PD Controllers</li></ul>	fay 2009	
Refereed Conference Publications	<ol> <li>Banerjee, I., Richards, D., &amp; Shinkar, I., Sorting On Restric to SOFSEM 2019.</li> </ol>	eted Topologies, Accepted	
	2. Banerjee, I., & Richards, D. New Results On Routing Via Matchings On Graphs. International Symposium on Fundamentals of Computation Theory (FCT 2017)		
	3. Banerjee, I., & Richards, D. Sorting Under Forbidden Comparisons. Scandinavian Symposium And Workshop On Algorithms (SWAT 2016)		
	4. Banerjee, I., & Richards, D. Computing Maximal Laye Theoretical Informatics - 12th Latin American Symposium	ers of Points in $E^{f(n)}$ , n (LATIN 2016)	
Refereed Journal Publications	5 Banerjee, I., & Richards, D. On Distribution Of Maxim Orders, Congressus Numerantium 225 (2015), 211-216.	nal Layers Of Random	
	6 Banerjee, I., & Prasun, D. Group Technology Based Adaptive Cell Formation Using Predator-Prey Genetic Algorithm., Applied Soft Computing 12.1 (2012): 559-572.		
	7 Banerjee, I., & Prasun, D. An Hybrid Detection System Of Using Cascaded SVM And Neural Network Based Detec and Applications 20.2 (2011): 287-296.	Control Chart Patterns tor, Neural Computing	
SUBMITTED	8 Banerjee, I., Richards, D., Sorting Network On Trees, Processing Letters.	submitted to Parallel	

Awards	<ul> <li>Travel Awards</li> <li>Theoretical Informatics - 12th Latin American Symposium, Ensenada, MexicoApril 2016</li> </ul>		
	<ul> <li>Student Awards</li> <li>George Mason University, Volgenau School Of 2013</li> </ul>	Engineering, Dean's Fellowship 2012–	
	<ul> <li>Department Of Computer Science, Outstanding 2017</li> </ul>	g Graduate Teaching Assistant Award,	
Teaching Experience	Co-instructor CS 112: Introduction to Computer Programm Under Mark Snyder Computer Science,GMU	Fall 2012	
	I have been a TA for CS583 - Introduction to course for graduate students for past 4 years theory and AI courses (Formal Methods, Intro-	Algorithms, the primary algorithms s. Additionally, I have TA'ed other b. To AI etc) along the way.	
Industrial Experience	<ul><li>Software Engineer, Videonetics Tech. Pvt. Ltd.</li><li>Developed computer vision applications for tra-</li><li>Worked in Text segmentation/OCR</li></ul>	Jan 2010 – Mar 2011 affic surveillance	
	Software Engineer, Tech BLA Pvt. Ltd.	August 2011 – July 2012	
	• Development of computer vision based application for mobile devices.		
Talks	<ul> <li>Presented at 12th Latin American Symposium on Theoretical Informatics.</li> <li>Presented at the inaugural GMU CS PhD Symposium , 2016.</li> <li>Presented at GMU Combinatorics Geometry and Algebra Seminar (CAGS)</li> <li>Presented at Capital Area Theory Seminar (UMD, College Park)</li> <li>I co-organize the CS-Theory colloquium at GMU and given several talks as part of it.</li> </ul>		
Other	• Languages known: C/C++, Python, Java, Mathematica, Lisp, PROLOG		
References	Dana Richards, PhD Associate Professor Department Of Computer Science George Mason University	Phone: +1 703-993-1545 E-mail: richards@cs.gmu.edu	
	Fei Li, PhD Associate Professor Department Of Computer Science George Mason University	Phone:+1 703-993-1540 E-mail: lifei@cs.gmu.edu	
	Walter Morris, PhD Professor Department of Mathematical Sciences George Mason University	Phone: +1 703-993-1481 E-mail: wmorris@gmu.edu	
	Sanghamitra Bandyopadhyay, PhD Professor Machine Intelligence Unit Indian Statistical Institute	Phone: +91-33-2575-3114 E-mail: sanghami@isical.ac.in	

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