

# AMLAN CHATTERJEE

Department of Computer Science  
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## EDUCATION

- **Doctor of Philosophy**, Computer Science, December 2014.  
The University of Oklahoma, Norman  
Dissertation: *Parallel Algorithms for Counting Problems on Graphs Using Graphics Processing Units*.
- **Master of Science**, Computer Science, June 2009.  
University at Buffalo, The State University of New York
- **Bachelor of Technology**, Computer Science & Engineering, June 2007.  
West Bengal University of Technology, Kolkata, India

## EXPERIENCE

- **Assistant Professor - Department of Computer Science**(Aug '15 - Present)  
**California State University Dominguez Hills (CSUDH)**
- **Programmer Analyst - Wal-Mart Stores Inc.** (Jan '15 - Aug '15)  
**Information Systems Division**, 805 Moberly Lane, Bentonville, Arkansas 72712
- **Instructor, School of Computer Science**  
University of Oklahoma, Norman, August 2013 - December 2013
- **Graduate Teaching Assistant, School of Computer Science**  
University of Oklahoma, Norman, August 2009 - August 2014
- **Graduate Teaching Assistant, Center for Teaching Excellence**  
University of Oklahoma, Norman, August 2014- December 2014
- **Graduate Research Assistant, School of Computer Science**  
University of Oklahoma, Norman, August 2009 - December 2014

## PUBLICATIONS

- **A. Chatterjee**, M. Levan, C. Lanham and M. Zerrudo, *Job Scheduling in Cloud Datacenters Using Enhanced Particle Swarm Optimization*, IEEE International Conference for Convergence in Technology (I2CT), 2017.
- **A. Chatterjee**, J. Chen, M. Perez, E. Tapia and J. Tsan *Energy Efficient Framework for Health Monitoring Using Mobile Systems*, IEEE International Conference for Convergence in Technology (I2CT), 2017.
- **A. Chatterjee**, M. Levan, C. Lanham, M. Zerrudo, M. Nelson and S. Radhakrishnan, *Exploiting Topological Structures for Graph Compression Based on Quadrees*, IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN), 2016.
- **A. Chatterjee**, A. Aceves, R. Dungca, H. Flores, K. Giddens, *Classification of Wearable Computing: A Survey of Electronic Assistive Technology and Future Design*, IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN), 2016.

- M. Nelson, S. Radhakrishnan, **A. Chatterjee** and C. N. Sekharan, *On Compressing Massive Streaming Graphs with Quadrees*, IEEE International Conference on Big Data, Workshop on Mining Big Data in Social Networks (MBD-SONET), 2015.
- **A. Chatterjee**, S. Radhakrishnan and C. N. Sekharan, *Connecting the dots: Triangle completion and related problems on large data sets using GPUs*, IEEE International Conference on Big Data, Workshop on High Performance Big Graph Data Management, Analysis, and Mining, pages 1-8, 2014.
- K. S. Hasan, **A. Chatterjee**, S. Radhakrishnan and J. K. Antonio, *Performance Prediction Model and Analysis for Compute-intensive Tasks on GPUs*, 11th IFIP International Conference on Network and Parallel Computing, Lecture Notes in Computer Science, Volume 8707, pages 612-617, 2014.
- **A. Chatterjee**, S. Radhakrishnan and J. K. Antonio, *On Analyzing Large Graphs Using GPUs*, IEEE 27th International Parallel and Distributed Processing Symposium Workshops & PhD Forum (IPDPSW), pages 751-760, 2013.
- **A. Chatterjee**, S. Radhakrishnan and J. K. Antonio, *Data Structures and Algorithms for Counting Problems on Graphs using GPU*, International Journal of Networking and Computing (IJNC), Volume 3, Number 2, pages 264–288, 2013.
- **A. Chatterjee**, S. Radhakrishnan and J. K. Antonio, *Counting Problems on Graphs: GPU Storage and Parallel Computing Techniques*, IEEE 26th International Parallel and Distributed Processing Symposium Workshops & PhD Forum (IPDPSW), pages 804-812, 2012.

## POSTERS

- **A. Chatterjee**, S. Radhakrishnan and J. K. Antonio, *Efficient and Parallel Computations on Graphs Using GPUs*, Student Research & Performance Day, University of Oklahoma, 2012.
- **A. Chatterjee**, S. Radhakrishnan and J. K. Antonio, *Using GPUs for Graph Analysis*, College of Engineering, Graduate Programs Information Symposium, University of Oklahoma, 2012.
- V. Jayaram, K. D. Crain, G. R. Keller, **A. Chatterjee**, *A Fast Full Tensor Gravity Computation Algorithm for High Resolution 3D Geologic Interpretations*, Annual Fall AGU Meeting, 2011.

## INVITED TALKS

- **Osher Lifelong Learning Institute (OLLI)**, “Wearable Computing: Applications and Challenges”, 2017
- **Osher Lifelong Learning Institute (OLLI)**, “Desktop Supercomputers”, October 2016
- **Computer Science Department Big-Data Seminar**, “Graph Compression Using Quadrees”, April 2016
- **Osher Lifelong Learning Institute (OLLI)**, “Desktop Supercomputers”, March 2016

## GRANTS, SCHOLARSHIPS AND HONORS

- **Professional Development Fund**, Office of Graduate Studies & Research, CSUDH 2017
- **Faculty Mentor Stipend**, Graduate Writing Institute for Excellence, CSUDH, 2016–17
- **Faculty Sponsored Research and Creative Activity Grant**, 2016–17

- **NSF Cloud For Everyone Workshop Travel Grant**, 2016
- **Norris Foundation Summer Grant**, CSUDH, 2016
- **NSF CAREER Workshop Travel Grant**, 2016
- **Affordable Learning Solutions Open Textbook Project Grant**, CSUDH, 2016
- **Graduate Computer Science Scholarship**, University of Oklahoma, 2012–13
- **Computer Science Advisory Board Scholarship**, School of Computer Science, University of Oklahoma, Norman, 2012
- **Phillips Petroleum Scholarship**, University of Oklahoma, Norman, 2010–11
- **Ranked 1<sup>st</sup>** among 68 students in the Department during Undergraduate studies

#### **ACADEMIC SERVICE**

- **Faculty Search Committee Member**, Department of Computer Science, CSUDH, 2017
- **Research Chair**, Untenured Faculty Organization, CSUDH, 2016–17
- **Judge**, Student Research Day, CSUDH, 2016
- **Advisory Council on Research Member**, College of Natural & Behavioral Sciences, CSUDH, 2015–17
- **Search Committee Member**, Associate Vice President for Student Success Search Committee, CSUDH, 2015
- **Accreditation Board for Engineering and Technology (ABET) Committee Member**, Department of Computer Science, CSUDH, 2015
- **Curriculum Committee Member**, Department of Computer Science, CSUDH, 2015–16
- **Research Committee Member**, Department of Computer Science, CSUDH, 2015–16
- **Faculty Advisor**, IEEE Computer Society Club, ACM Student Chapter, Cyber Security Club, Computing Alliance of Hispanic Serving Institutions (CAHSI) Club; CSUDH, 2015–16
- **President, Computer Science Graduate Student Association (CSGSA)**, University of Oklahoma, Norman, 2010–11
- **Graduate College Academic Appeal or Misconduct Panels** University of Oklahoma, Norman, 2010–11  
Nominated by the School of Computer Science to serve as potential member of the panel.
- **Class Representative**, Computer Science & Engineering Department, West Bengal University of Technology, India, 2004–07
- **Placement Committee Representative**, Computer Science & Engineering Department, West Bengal University of Technology, India, 2006–07

#### **AFFILIATIONS**

- **IEEE**, Member of the Institute of Electrical and Electronics Engineers
- **IEEE Computer Society**, Member
- **IEEE Communications Society**, Member
- **IEEE Young Professionals**, Member
- **ACM**, Member of the Association for Computing Machinery
- **IAENG** Member, International Association of Engineers

## PROFESSIONAL ACTIVITIES

- **Technical Program Committee**, IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI)
- **International Advisory Committee**, IEEE International Conference on Computer, Communications and Electronics (Comptelix)
- **International Advisory Committee**, IEEE International Conference on Advanced Computational and Communication Paradigms (ICACCP)
- **Technical Program Committee**, International Science Conference on Computer Networks
- **Program Committee**, Workshop on Advances in Parallel and Distributed Computational Models (APDCM)
- **Session Chair**, Signal Processing and HPC Track II, IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN), 2016.
- **Reviewer**, IEEE International Conference on Communications Ad-Hoc and Sensor Networking Symposium
- **Reviewer**, Journal of Network and Computer Applications
- **Reviewer**, Journal of Vehicular Communications
- **Reviewer**, International Journal of Networking and Computing (IJNC)

## LANGUAGES

- English (fluent)
- Bengali (native)
- Hindi (native)