John Sanderson

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Education

- 1. PhD in Engineering Physics, 2007 Michigan Tech, Houghton, MI.
- MS in Physics, 2002
 Bangalore University, Bangalore, India.
- 3. BS in Physics, Mathematics and Statistics, 2000 Bangalore University, Bangalore, India.

Research Interests

- 1. Design, development and optimization of parallel computing and visualization platforms
- 2. Development of technological tools that assist research and classroom teaching
- 3. Development of computational sciences and engineering curriculum
- 4. Interaction of biological matter with nanomaterials
- 5. Electronic structure of nanoclusters

Professional Appointments

- 1. Director of Research Computing (01/2011 present) Information Technology, Michigan Tech
- 2. Adjunct Assistant Professor

Electrical and Computer Engineering, Michigan Tech (11/2013 - present) Physics, Michigan Tech (11/2011 - present)

- 3. Assistant Research Scientist (05/2009 01/2011) Physics, Michigan Tech (Advisor: Dr. Maximilian Seel)
- 4. Application Developer (02/2008 04/2009)AT&T Research and Development HQ, Middletown, NJ

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Synergistic Activities

- 1. Michigan Tech Representative
 - (a) Coalition for Academic Scientific Computation (2015 present)
 - (b) NSF XSEDE Campus Champion program (2012 present)
 - (c) HPC Advisory Council (2011 present)
- 2. The International Conference for High Performance Computing, Networking, Storage and Analysis
 - (a) Member, Broader Engagement Committee, SC13.
 - (b) Mentor, Broader Engagement/HPC Interconnections, SC12, SC13, SC14, SC15, SC16
- 3. Science Advisor, John Wiley and Sons, Inc. (2010 present)
- 4. Reviewer for Scientific Journals and Conferences (2009 present)
- 5. Mentor, MICUP/MI-LSAMP, Michigan Tech (Summer 2011)

Recent Publications

- 1. A Molecular Dynamic Modeling Of Cross-Linked Epoxy Resin Using Reactive Force Field: Thermo-Mechanical Properties
 - O. Aluko, S. Gowtham, G. M. Odegard Journal of Mechanics Engineering and Automation, vol. 5, p. 655 (2016)
- 2. Mechanical Properties Of Graphene Nanoplatelet/Carbon Fiber/Epoxy Hybrid Composites: Multiscale Modeling And Experiments
 - C. M. Hadden, D. R. Klimek-McDonald, E. J. Pineda, J. A. King, A. M. Reichanadter, I. Miskioglu, S. Gowtham, G. M. Odegard Carbon, vol. 95, p. 100 (2015)
- Revision Control System (RCS) In Computational Sciences And Engineering Curriculum S. Gowtham XSEDE'14, Atlanta, GA. (2014)

References

Available upon request