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Education

- **University of British Columbia** Vancouver, Canada
  Doctor of Philosophy (Computer Science) *Sep 2015 - Present*
  - Supervisors: Mark Schmidt, Laks V.S. Lakshmanan
- **University of British Columbia** Vancouver, Canada
  Master of Science (Computer Science) *Sep 2013 - July 2015*
  - Supervisor: Laks V.S. Lakshmanan
  - Thesis: Influence Maximization in Bandit and Adaptive settings
  - Overall GPA: 4.32 / 4.33
- **Birla Institute of Technology and Science, Pilani** Goa, India
  Bachelor of Engineering (Computer Science) *Aug 2008 - July 2012*
  - Overall GPA: 9.37 / 10

Work Experience

- **Adobe Research** San Jose, USA
  Data Scientist Intern *Aug 2016 - Oct 2016*
  - Supervisors: Branislav Kveton, Zheng Wen and Mohammad Ghavamzadeh
  - Bandit algorithms for viral marketing
- **University of British Columbia** Vancouver, Canada
  Teaching Assistant *Sep 2013 - Aug 2016*
  - Courses: CPSC 421 - Theory of Automata, Formal Languages and Computability; CPSC 302 - Numerical Computation for Algebraic Problems; CPSC 322 - Introduction to Artificial Intelligence; CPSC 406 - Computational Optimization; CPSC 340 - (Undergraduate) Machine Learning; CPSC 540 - (Graduate) Machine Learning
- **Siemens Corporate Research and Technologies** Bangalore, India
  Research Engineer, Parallel Systems *July 2012 - June 2013*
  - Supervisors: Nagavijayalakshmi Vydyanathan, Amit Kale, Saptarshi Das
  - Design and parallelization of algorithms for fast and accurate structure localization in CT volumes
  - Development and parallelization of efficient algorithms for fast compressive sensing applications in the context of Single Pixel Camera and Image deblurring
  - Performance evaluation of medical imaging algorithms on Intel MIC platform
  - Classification of heart sounds using template based methods and hidden Markov models
- **Siemens Corporate Research and Technologies** Bangalore, India
  Research Intern, Parallel Systems *January 2012 - June 2012*
  - Supervisors: Nagavijayalakshmi Vydyanathan, Amit Kale
  - Design and parallelization (on CPU and GPU) of a Meanshift based algorithm for detection of salient regions in medical CT, PET and MR volumes.
  - Integration of the parallel algorithm with Microsoft Kinect for real time gesture based nearest-salient-region detection.
- **Birla Institute of Technology and Science, Pilani** Goa, India
  Teaching Assistant *Aug 2012 - Dec 2012*
  - Courses: CS C363 - Data Structures and Algorithms

- **Indira Gandhi Centre for Atomic Research** Kalpakkam, India
  Intern *May 2010 - July 2010*
  - Supervisor: M.L. Jayalal
  - Study and implementation of genetic algorithms for optimization of steam condenser design

Publications

- "Horde of Bandits using Gaussian Markov Random Fields", **Sharan Vaswani**, Mark Schmidt, Laks.V.S. Lakshmanan. To appear in 20th International Conference on Artificial Intelligence and Statistics (AISTATS), 2017. **(Oral presentation)**
- "Influence Maximization with Bandits", **Sharan Vaswani**, Laks.V.S. Lakshmanan, Mark Schmidt. NIPS workshop on Networks in the Social and Information Sciences 2015.
- "Modeling Non-Progressive Phenomena for Influence Propagation", Vincent Yun Lou, Smriti Bhagat, Laks V.S. Lakshmanan, **Sharan Vaswani**. ACM Conference on Online Social Networks (COSN14).
- "Performance Evaluation of Medical Imaging Algorithms on Intel MIC Platform" Jyotsna Khemka,Mrugesh Gajjar, **Sharan Vaswani**,Nagavijayalakshmi Vydyanathan, Rama Malladi, Vinutha V. 20th IEEE International Conference on High Performance Computing (HiPC) 2013.
- "Fast 3D Salient Region Detection in Medical Images using GPUs" Thota, Rahul, **Sharan Vaswani**, Amit Kale, and Nagavijayalakshmi Vydyanathan. Machine Intelligence and Signal Processing. Springer India, 2016.
- "Fast 3D Structure Localization in Medical Volumes using CUDA-enabled GPUs" **Sharan Vaswani**, Rahul Thota, Nagavijayalakshmi Vydyanathan, Amit Kale. 2nd IEEE International Conference on Parallel Distributed and Grid Computing 2012, India. **(Best paper award)**

Graduate Courses

- Machine Learning and Optimization (A), Social Networks (A), Artificial Intelligence (A+), Machine Learning Theory (A+), Numerical Optimization (A+), Computational Neuroscience (A+), Machine Learning (A+)

Awards

- Four Year Doctoral Fellowship (2015-2019) awarded by the University of British Columbia.
- Merit Scholarship (2008-2010) awarded by Birla Institute of Technology and Science, Pilani.

Skills

Languages: C/C++, Python, Java, SQL, CUDA, OpenMP

Other: MATLAB, Hadoop

Service

- Reviewer for IEEE TNNLS.
- Student representative in the UBC Computer Science Faculty Recruiting committee for 2015-2016.
- Conference volunteer for NIPS'16.
- Sub-reviewer for AAAI'17, WWW'17, SDM'15,'17, KDD'16, ICDM'14.