Jyoti Aneja Mobile: +1-217-819-8033

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EDUCATION

University of Illinois, Urbana-Champaign

Ph.D. Dec. 2015 - Present

• Research Interests: Machine Learning, Graphical Models and Computer Vision: Using generative and discriminative models for language vision tasks. Applying techniques learnt from spin model physics to computer vision problems.

Advisor: Prof. Alexander Schwing.

University of Illinois, Urbana-Champaign

Master of Science in Physics; GPA: 3.96

Aug. 2013 - Dec 2015

 $\circ\,$ Research in computational condensed matter physics. Advisor: Prof. Bryan Clark.

PUBLICATIONS

- Fast, Diverse and Accurate Image Captioning Guided By Part-of-Speech: Aditya Deshpande*,
 Jyoti Aneja*, Liwei Wang, Alexander Schwing, David Forsyth. Accepted at CVPR 2019 [ORAL]
- Convolutional Image Captioning: <u>Jyoti Aneja*</u>, <u>Aditya Deshpande*</u>, <u>Alexander Schwing</u>; Conference on Computer Vision and Pattern Recognition, CVPR 2018.
- Gauge Symmetry of the 2 Dimensional Quantum Spin Liquid in Quantum Kagome Ice: *Jyoti Aneja*, *Bryan Clark*; International Summer School on Computational Quantum Materials 2016 -University of Sherbrooke
- Negative Ion Rich Plasmas in Continuous and Pulsed Wave Modes in a Minimum-B Magnetic Field:
 Debaprasad Sahu, Shail Pandey <u>Jyoti Aneja</u>, Sudeep Bhattacharjee; American Institute of Physics-Physics of Plasmas

*: equal contribution

Industry Experience

Snap Research

Los Angeles, CA

Summer Internship

May 2018 - Aug 2018

• Captioning and Graph Convolutions: Worked on using graph convolution networks to improve diversity in current captioning models. Mentors: Dr. Ning Zhang, Ziyu Zhang

AWARDS AND RECOGNITION

- $\circ\,$ Session Chair: Applied Machine Learning, CSL Student Conference, UIUC-2019
- Departmental Travel Awards: Awarded thrice. Once to present CS paper at CVPR-2018 and twice for presenting physics research at Princeton University and University of Sherbrooke, Canada.
- o Excellent TA UIUC: Awarded several times for CS and Physics courses
- o Academic Excellence award: Best Graduating Student, IIT-Kanpur.
- **DST-DFG award**: Awarded by the Department of Science And Technology, Government of India and German Research Foundation, selected for participating in meeting of The Nobel Laureates Students at Lindau, Germany.

Teaching

- Teaching Assistant CS: Machine Learning, Applied Machine Learning, Numerical Methods, Data Structures Assisted in creating theory and coding assignments. Conducted weekly office hours to help students with home works and concepts.
- Teaching Assistant Physics: Classical Mechanics, Quantum Mechanics, Electrodynamics, Statistical Physics. Conducted weekly office hours involving blackboard teaching and tutorial sessions.