Curriculum Vitae/Resume Ekdeep Singh Lubana Email: eslubana@umich.edu

Education	
Ph.D. (Pre-candidate), University of Michigan, Ann Arbor Major: Embedded Systems August, 2019–May, 2024 (expected)
B.Tech., Indian Institute of Technology, Roorkee Major: Electronics and Communication Engineering Thesis: Resource Efficient Techniques for Embedded Machine Vision (Nominated for Best Bachelor's Thesis)	
Publications	
1. Ekdeep Singh Lubana and Robert P. Dick. A Gradient Flow Framework For Analyzing Network Pruning. In <i>Int. Conf. on Learning Representations (ICLR)</i> , 2021. Accepted for spotlight presen (<5.5% of all submissions).	
2. Ekdeep Singh Lubana , Robert P. Dick, Vinayak Aggarwal, and Pyari Mohan Pradhan. Minimal Image Signal Processing for Deep Learning Accelerators. In <i>Proc. Int. Conf. on Image Processing</i> (2019. Typical conference acceptance rate: <40%.	
3. Ekdeep Singh Lubana , Vinayak Aggarwal, and Robert P. Dick. Machine Foveation: An Application-Aware Compressive Sensing Framework. In <i>Proc. Data Compression Conference (DCC</i> Typical conference acceptance rate: <30%.	<i>!)</i> , 2019.
4. Ekdeep Singh Lubana and Robert P. Dick. Digital Foveation: An Energy-Aware Machine Vision Framework. In Proc. Int. Conf. Hardware/Software Codesign and System Synthesis (CODES+ISSS Typical conference acceptance rate: <25%.	
5. Ekdeep Singh Lubana , Mangesh Rajan Gurav, and Maryam Shojaei Baghini. Snap: Chlorophyll Concentration Calculator Using RAW Images of Leaves. In <i>Proc. IEEE Sensors</i> , pages 1–4, 2018. Acceptance rate: 25.4%.	
Preprints	
1. Ekdeep Singh Lubana , Robert P. Dick, and Hidenori Tanaka. Beyond BatchNorm: Towards a Gunderstanding of Normalization in Deep Learning. <i>arXiv:cs.LG</i> , 2021. https://arxiv.org/pdf/2106.05956.pdf.	eneral
2. Ekdeep Singh Lubana , Puja Trivedi, Danai Koutra, and Robert P. Dick. How do Quadratic Reg Prevent Catastrophic Forgetting: The Role of Interpolation. <i>arXiv:cs.LG</i> , 2021. https://arxiv.org/pdf/2102.02805.pdf.	;ularizers
Patents (Filed)	
1. Ekdeep Singh Lubana . An optical device to calculate nitrogen concentration in leaves, August 2 India Patent App. 201611027953 A	5 2017.
2. Ekdeep Singh Lubana . An apparatus based on RAW images that can calculate nutrient concent leaves, September 08 2017. India Patent App. 201711029780 A	ration in
Technical Awards	
· Awarded the BIRAC-GYTI award by the President of India.	2018
Winner of the Ericsson Innovation Challenge held at the Nobel Museum, Stockholm, Sweden.	2017
 Winner of the Jury's Choice Award at the Accenture Innovation Challenge. Gold medal and winner of Engineers' Conclave at Inter-IIT Tech meet. 	2017 2018
ACADEMIC ACHIEVEMENTS & SCHOLARSHIPS	
· Awarded the KVPY (Kishore Vaigyanik Protsahan Yojna) Fellowship by Govt. of India.	2015
· Awarded the NTSE (National Talent Search) Scholarship by N.C.E.R.T., New Delhi.	2014
· Ranked amongst Top 300 students in National Standard Examination in Astronomy.	2015

Internships _ · Visiting Researcher, University of Michigan May, 2018-July, 2018 Guide: Prof. Robert P. Dick · Visiting Researcher, University of Michigan December, 2017–January, 2018 Guide: Prof. Robert P. Dick · Research Intern, Indian Institute of Technology, Bombay May, 2017-July, 2017 Guide: Prof. Maryam Shojaei Baghini TEACHING EXPERIENCE __ · Graduate Student Instructor Winter, 2020 EECS-200 (Electrical Engineering Systems Design I) · Teaching Assistant Spring, 2019 ECN-316 (Digital Image Processing)

Positions of Responsibility -

· Served as the Head of the Editorial Board.

2017-18

Executive Editor-Watch Out!, IIT Roorkee

Founding member-Institute Academic Council

2016

- · Founded the Council to provide direct feedback to the General Secretary, Academic affairs.
- · A number of academic initiatives, including the introduction of Undergraduate Teaching Assistants, were successfully launched.