# KALYANI MARATHE

Research Assistant Office: 490, Paul G. Allen Center University of Washington EMAIL: kmarathe@cs.washington.edu

Seattle, WA 98195 HOMEPAGE: kalyani7195.github.io

#### **EDUCATION**

Ph.D. at University of Washington Mar 2021 - (ongoing)

Department of Electrical and Computer Engineering Advisors: Prof. Linda Shapiro and Prof. Ranjay Krishna Research interests: Deep Learning, Computer Vision

M.S. at University of Washington Sep 2019 - Mar 2021

Courses: Computer Vision, Statistical Learning, Deep Learning, Al Department of Electrical and Computer Engineering, GPA: 3.92/4

B.Tech. at College of Engineering, Pune Jun 2013 - Jun 2017

Electronics and Telecommunication Engineering,

GPA: 8.87/10 (Rank: 6/87)

#### RESEARCH & INDUSTRY EXPERIENCE

Research Assistant Jun 2020 - (ongoing)

PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SEATTLE Self supervised representation learning for dense prediction tasks [1] (as part of the UW-AMAZON SCIENCEHUB)

Associate Software Engineer Jul 2017 - Aug 2019

IDEAS REVENUE SOLUTIONS, A SAS COMPANY, PUNE

Summer Research Fellow MAY 2016 - JUL 2016

DEPARTMENT OF CSE, INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

#### SELECTED PUBLICATIONS

- 1. "MIMIC: Masked Image Modeling with Image Correspondences" Marathe, K., Bigverdi, M., Khan, N., Kundu, T., Kembhavi, A., Shapiro, L. G., Krishna, R., (Preprint under review) [PDF] [Code]
- 2. "Automated quantitative assessment of amorphous calcifications: Towards improved malignancy risk stratification.", Marathe, K., Marasinou, C., Li, B., Nakhaei, N., Li, B., Elmore, J.G., Shapiro, L. and Hsu, W., Computers in Biology and Medicine, 2022 [PDF] [slides]

#### TEACHING EXPERIENCE

TA, CSEP 576: Computer Vision [link] PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SEATTLE	FALL 2021
TA, CSE 412: Introduction to Data Visualization [link] PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SEATTLE	WINTER 2021, SPRING 2021
TA, CSE 374: Intermediate Programming Concepts & Tools [link]	FALL 2020

PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SEATTLE

## **UNIVERSITY SERVICE**

PhD Student Representative, Graduate Programs Review Committee Worked with professors and staff members to discuss policy improvements DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, UW SEATTLE	FALL 2022
Mentor, Graduate Application Support Program (GASP) Read application materials and provided feedback to applicants from underserved communities DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, UW SEATTLE	FALL 2022
Member, MS Admissions Triage Committee Evaluated application materials of 20+ students interested in pursuing Masters in Computer Vision and Machine Learning DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, UW SEATTLE	FALL 2020

## ACADEMIC SERVICE

Reviewer, SynData4CV CVPR 2024 Workshop	APR 2024
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Awards	
The IDeaS "Way To Go" Award (Leadership and Team Spirit category) IDEAS, A SAS COMPANY, PUNE	OCT 2018
Summer Research Fellowship Award IASC (BENGALURU), INSA (NEW DELHI), NASJ (ALLAHABAD)	MAR 2016
Statewise top 1% in the NSEJS Examination Top 300 in India to appear for the second stage of the International Junior Science Olympiad INDIAN ASSOCIATION OF PHYSICS TEACHERS, KANPUR	DEC 2010

### **SKILLS**

Programming Languages: Machine Learning: Python, Java, Groovy, C, C++, LATEX PyTorch, Tensorflow, Scikit-Learn, Numpy, Scipy