

Anurag Singh

<http://anurag14.github.io>

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EDUCATION

- Saarland University - CISPA Helmholtz Center for Information Security** *Saarbrücken, Germany*
 - PhD in Computer Science* *April 2023-Present*
Advisor: Prof Krikamol Muandet
- Technical University of Munich** *Munich, Germany*
 - MS in Computer Science* *Nov 2020- Feb 2023*
Advisor: Prof Debarghya Ghoshdastidar & Prof Matthias Nießner *Grade: Distinction (1.5/5)*
- Netaji Subhas Institute of Technology, University of Delhi** *Aug 14 - May 18*
 - BEng. in Information Technology* *New Delhi*
Advisor: Prof AV Subramanyam *Grade: Distinction (8.7/10)*

PUBLICATIONS

- Robust Feature Inference: A Test-time Defense using Spectral Projections.
Anurag Singh*, Mahalakshmi Sabanayagam*, Krikamol Muandet, Debarghya Ghoshdastidar
Under Review at TMLR
- Domain Generalization via Imprecise Learning [\[pdf\]](#)
Anurag Singh, Siu Lun Chau, Shahine Bouabid, Krikamol Muandet
ICML 2024
- Improving Semi-Supervised Domain Adaptation Using Effective Target Selection and Semantics [\[pdf\]](#)
CVPR L2ID Workshop 2021
Anurag Singh*, Naren Doraiswamy*, Sawa Takamuku, Megh Bhalerao, Titir Dutta, Soma Biswas
- Adaptive Margin Diversity Regularizer for handling Data Imbalance in Zero-Shot SBIR. [\[pdf\]](#)
Titir Dutta, Anurag Singh, Soma Biswas
ECCV 2020 (**Spotlight**)
- StyleGuide: Zero-Shot Sketch-based Image Retrieval Using Style-Guided Image Generation. [\[pdf\]](#)
Titir Dutta, Anurag Singh, Soma Biswas
IEEE Transactions on Multimedia (TMM), 2020
- Image Corpus Representative Summarization. [\[pdf\]](#)
Anurag Singh, Lakshay Virmani, AV Subramanyam
IEEE BigMM 2019, NUS Singapore (**Honourable Mention Award**)

WORK EXPERIENCE

- Indian Institute of Science** *Bangalore, India*
 - Research Associate* *Advisor: Prof. Soma Biswas* *July 2019 - Sept 2020*
 - Research on learning with limited labels and imbalanced data in different computer vision tasks like classification, domain-adaptation (DA) and Sketch-based Image Retrieval (SBIR).
- Royal Bank of Scotland (RBS)** *New Delhi, India*
 - Software Engineer* *June 2018 - July 2019*
 - Led access management face recognition system initiative at RBS. Conceptualized the architecture to perform recognition with low latency on edge. [\[MVP\]](#)
 - As a software engineering Intern in summer 2017, built a utility to replay lost brokerage messages saving ~ 500 man-hours annually. Considering performance, offered a full-time position.
- IIIT Delhi** *New Delhi, India*
 - Research Associate* *Advisor: Prof. AV Subramanyam* *Aug 17 - Mar 18*

- Formulated first end-to-end deep learning model and evaluation metric for unsupervised image collection summarization. First author publication in BigMM'19 at NUS Singapore. [\[poster\]](#) [\[ppt\]](#)

HONOURS AND AWARDS

- **Merit Scholarship:** Half tuition waiver (**28,000 \$**) at UChicago for MSCS in Fall 2020.
- **Honorable Mention Award** at IEEE BigMM 2019 amongst top 3 of 250 submissions.
- **Merit Scholarship:** Full tuition waiver at Netaji Subhas Institute of Technology (2014-2018).

PROFESSIONAL SERVICE

- **Reviewer:** WACV 2021, WACV 2022, ICVGIP 2023, IEEE TIP 2023

TEACHING

- **TA:** Elements of Machine Learning, Winter semester 2023, Saarland University
- **TA:** Introduction to Deep Learning, Winter semester 2021, TU Munich