

# Anurag Singh

<http://anurag14.github.io>

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## EDUCATION

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### CISPA Helmholtz Center for Information Security

Saarbrücken, Germany

- *PhD in Computer Science*  
Advisor: Prof Krikamol Muandet

April 2023-Present

### Technical University of Munich

Munich, Germany

- *MS in Computer Science*  
Advisor: Prof Debarghya Ghoshdastidar & Prof Matthias Nießner

Nov 2020- Feb 2023  
Grade: Distinction (1.5/5)

### Netaji Subhas Institute of Technology, University of Delhi

Aug 14 - May 18

- *BEng. in Information Technology*  
Advisor: Prof AV Subramanyam

New Delhi  
Grade: Distinction (8.7/10)

## PUBLICATIONS

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- Robust Feature Inference: A Test-time Defense using Spectral Projections.  
Anurag Singh\*, Mahalakshmi Sabanayagam\*, Krikamol Muandet, Debarghya Ghoshdastidar  
TMLR 2024
- Domain Generalization via Imprecise Learning [\[pdf\]](#)  
Anurag Singh, Siu Lun Chau, Shahine Bouabid, Krikamol Muandet  
ICML 2024 (**Spotlight**)
- 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

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### 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

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- **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

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- **Reviewer:** NeurIPS 2024, IEEE TIP 2023, WACV 2021, WACV 2022, ICVGIP 2023

## TEACHING

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