

OMPRAKASH CHAKRABORTY

Postdoctoral Fellow, École de technologie supérieure (ÉTS), Montréal, Canada

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RESEARCH INTERESTS

Computer Vision (Action Recognition, Domain Adaptation, VLMs), Deep Learning (Efficient Learning, Limited Labels, Limited Compute)

EDUCATION

Indian Institute of Technology Kharagpur (IIT KGP) 2019 – 2024

Ph.D. in Artificial Intelligence

Thesis: *Efficient Deep Learning towards Visual Scene Understanding*

Advisor: Prof. Abir Das

Fellowship: Google PhD Fellowship

Indian Institute of Technology Kharagpur (IIT KGP) 2015 – 2018

M.S. in Computer Science and Engineering, GPA: 9.44/10

Haldia Institute of Technology 2011 – 2015

B.Tech in Information Technology, GPA: 8.67/10

RESEARCH EXPERIENCE

Postdoctoral Fellow Jul 2025 – Present

École de technologie supérieure (ÉTS), Montréal, Canada

Supervisors: Prof. Ismail Ben Ayed and Prof. Jose Dolz

Fellowship: FRQnet PBEEEI Postdoctoral Fellowship

Research: Label-efficient learning, prompt-based adaptation for medical imaging.

Visiting Research Intern Aug 2023 – Dec 2023

King Abdullah University of Science and Technology (KAUST), with Prof. Bernard Ghanem

Efficient adaptation of Vision–Language Models under dynamic settings.

Senior Research Fellow 2019 – 2024

Center of Excellence in Artificial Intelligence, Indian Institute of Technology Kharagpur

Junior Research Fellow 2015 – 2018

Department of Computer Science, Indian Institute of Technology Kharagpur

PUBLICATIONS

- **O. Chakraborty**, J. Dolz, I. Ben Ayed. [ORION: ORthonormal Text Encoding for Universal VLM Adaptation](#). *CVPR*, 2026.
- L. Fillioux, **O. Chakraborty**, I. Ben Ayed, P. H. Cournède, S. Christodoulidis, M. Vakalopoulou, J. Dolz. [SoC: Semantic Orthogonal Calibration for Test-Time Prompt Tuning](#). *CVPR*, 2026.
- L. Fillioux, **O. Chakraborty**, I. Ben Ayed, P. H. Cournède, S. Christodoulidis, M. Vakalopoulou, J. Dolz. [Information Maximization for Long-Tailed Semi-Supervised Domain Generalization](#). *MICCAI*, 2026.
- **O. Chakraborty**, A. Sahoo, R. Panda, A. Das. [XPL: A Cross-Model Framework for Semi-Supervised Prompt Learning in Vision-Language Models](#). *TMLR*, 2024.
- **O. Chakraborty**, A. Sahoo, R. Panda, A. Das. [AnyDA: Anytime Domain Adaptation](#). *ICLR*, 2023.
- **O. Chakraborty**, A. Singh, A. Varshney, R. Panda, R. Feris, K. Saenko, A. Das. [Semi-Supervised Action Recognition with Temporal Contrastive Learning](#). *CVPR*, 2021.
- **O. Chakraborty**, P. Mitra, S. K. Ghosh. [Multi-facilities based Road Network Analysis for Flood Hazard Management](#). *Journal of Spatial Science*, 2019.

AWARDS AND FELLOWSHIPS

- FRQnet PBEEEI Postdoctoral Fellowship (2025)
- Google PhD Fellowship (2023)
- Nasscom AI Gamechangers Award (2024)
- INSC Young Researcher Award (2023)

WORKSHOPS AND PROFESSIONAL SERVICE

- Organizer, *Dynamic Neural Networks Meets Computer Vision Workshop*, CVPR 2021, 2022.
- Reviewer for TMLR, IEEE TPAMI, NeurIPS, CVPR, ICLR, ICVGIP.

EXTRACURRICULAR

Medals in basketball and athletics; active in music and community participations such as anti-ragging initiatives.