Shuvozit Ghose *Curriculum vitae*

Contact Information	106, Acadia Bay Winnipeg, Manitoba Canada. Pin-R3T 3H9.	(+1)-431-554-2105 Skype-live:shuvozit1 ghoses@myumanitoba.ca [Homepage]

Research Interests	Computer Vision, Deep Learning, Machine Learning, Reinforcement Learning.
Present Position	Pursuing M.Sc. in Computer Science (since September 2021).
Job Experience	**Research Intern** June 2020 - Mar 2021 University of Surrey, United Kingdom

Education

University of Manitoba, Winnipeg (Canada) Since 2021
- Masters in Computer Science

Maulana Abul Kalam Azad University of Technology, Kolkata (India) 2020
Formerly known as West Bengal University of Technology

- Bachelors in Computer Science & Engineering
- CGPA: 8.87/10

Journal Publications

1. **Shuvozit Ghose**, Abhirup Das, Ayan Kumar Bhunia, Partha Pratim Roy, "Fractional Local Neighborhood Intensity Pattern for Image Retrieval using Genetic Algorithm", **Multimedia Tools and Applications 2020, Springer** (DOI:10.1007/s11042-020-08752-6). [**arXiv**]

2. Ayan Kumar Bhunia, Ankan Kumar Bhunia, **Shuvozit Ghose**, Abhirup Das, Partha Pratim Roy, Umapada Pal "A Deep One-Shot Network for Query-based Logo Retrieval", **Pattern Recognition**, Volume 96, Pages 106965, 2019. (DOI:10.1016/j.patcog.2019.106965). [**arXiv**] **(I.F.- 5.898)**

Conference Papers

1. Ayan Kumar Bhunia, Aneeshan Sain, Amandeep Kumar, **Shuvozit Ghose**, Pinaki Nath Chowdhury, Yi-Zhe Song, "Joint Visual Semantic Reasoning: Multi-Stage Decoder for Text Recognition", *International Conference on Computer Vision* **(ICCV)**, 2021. [**Paper**] [**arXiv**] [**Youtube**]

2. Ayan Kumar Bhunia, **Shuvozit Ghose**, Amandeep Kumar, Pinaki Nath Chowdhury, Aneeshan Sain, Yi-Zhe Song, "MetaHTR: Towards Writer-Adaptive Handwritten Text Recognition", *Conference on Computer Vision and Pattern Recognition* **(CVPR)**, 2021. [**Paper**] [**arXiv**] [**Youtube**]

3. **Shuvozit Ghose**, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal, "Modeling Extent-of-Texture Information for Ground Terrain Recognition", *International Conference on Pattern Recognition* **(ICPR)**, Milan, 2020.[**Paper**] [**Github**] [**arXiv**] [**Youtube**]

4. Amandeep Kumar*, **Shuvozit Ghose***, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal, "UDBNET: Unsupervised Document Binarization Network via Adversarial Game", *International Conference on Pattern Recognition* **(ICPR)**, Milan, 2020.[**Paper**] [**Github**] [**arXiv**] [**Youtube**] [***Equal Contribution**]

5. Perla Sai Raj Kishore, Ayan Kumar Bhunia, **Shuvozit Ghose**, Partha Pratim Roy, "User Constrained Thumbnail Generation Using Adaptive Convolutions", *International Conference on Acoustics, Speech, and Signal Processing* **(ICASSP)**, London, 2019.[**Paper**] [**Github**] [**arXiv**] [**Oral**]

Reviewer

ICPR, 2022

Grader

COMP 2150 Object Orientation, Winter 2022
COMP 4360 Machine Learning, Winter 2022

Scientific Research Experience

Aug, 2018 to Jul, 2020 — **Advisor:** Prof. Umapada Pal , Ph.D.
Head, CVPR Unit, ISI-Kolkata, India
Research Directions: Logo recognition, detection and segmentation, Ground terrain recognition, Document image binarization.

Sept, 2018 to Jan, 2021 — **Advisor:** Prof. Partha Pratim Roy, , Ph.D.
Faculty of CSE, IIT Roorkee, India
Research Directions: Content based image retrieval, thumbnail generation, Sign language recognition, Document image binarization.

June, 2020 to Mar, 2021 — **Advisor:** Prof. Yi-Zhe Song , Ph.D.
Director, SketchX, CVSSP, University of Surrey, United Kingdom
Research Directions: Handwrittin Adaptation, Meta Learning Domain generalization, Few shot Learning.

Sep, 2021 to Present — **Advisor:** Prof. Yang Wang , Ph.D.
Faculty of CS, University of Manitoba, Canada
Research Directions: Video Anomaly Detection, Crowd Counting, Dynamic Scene Deblurring.

Awards and Scholarships

University of Manitoba Graduate Fellowship (UMGF)
University of Manitoba, 2022-2023

International Graduate Student Entrance Scholarship
University of Manitoba, 2021

Graduate Research Assistant, Computer Vision Lab
University of Manitoba, 2021

Technical Skills

- Programming Languages: C, C++, JAVA, Python.
- Low level Programming : 8085 Assembly.
- Deep Learning Framework: Tensorflow, Pytorch.
- Hardware Exposure: Arduino.
- Web Platform: HTML,CSS,JavaScript.
- Mathematics: Linear-algebra, Probability, Statistics.
- Miscellaneous: OpenCV, LIBSVM library, HTK library.