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
- B.Tech Thesis: *'A Simplistic All Convolution Net for Efficient Real Time Object Recognition'*

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

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.