Curriculum Vitae

July 10, 2023

Shuvozit Ghose

Homepage, *GitHub*, *Google Scholar*, *DBLP*

Computer Science
University of Manitoba, Winnipeg, Canada.
ghoses@myumanitoba.ca, shuvozit.ghose@gmail.com

106 Acadia Bay, Winnipeg, Canada
Telephone: +1 431 554 2105
DOB: October 22, 1998.

Education

M.Sc. — Computer Science *Sept 2021 – Oct 2023*
University of Manitoba, Canada

Computer Vision Lab

DGPA: 4.20/4.50.
Research Field: Computer Vision, 3D Understanding and Deep Learning
Thesis: CLIP for Point Cloud Understanding
Advisors: Prof. Yang Wang and Prof. Yiming Qian
Examiners: Prof. Lorenzo Livi and Prof Carson Kai-Sang Leung
Status: Expected to be graduated in October 2023.
Google Scholar Citations: 122 (h-index: 5) *Google Scholar*

Bachelor of Technology — Computer Science and Engineering *Aug 2016 – Aug 2020*
DGPA: 8.87/10. Maulana Abul Kalam Azad Univ. of Tech.(IEM), India

Work Experience

Graduate Research Assistant *Sept 2021 – Oct 2023*
University of Manitoba, Canada

Topic: CLIP for Point Cloud Understanding
Host: Prof. Yang Wang
Contribution: Submitted two papers in top two CV conferences

Research Intern *June 2020 – Mar 2021*
CVSSP, University of Surrey, UK.

Topic: Meta-Learning for Text Recognition
Host: Prof. Yi-Zhe Song
Contribution: Worked on projects that got accepted in CVPR 2021 and ICCV 2021.

Research Background

(i) Point Cloud Understanding
(ii) Generative Adversarial Network
(iii) Meta-Learning
(iv) Self-supervised Learning
(v) Few-Shot Learning
(vi) Text Recognition
(vii) Prompt Learning & Foundation Model
(viii) Object Detection
(ix) Semi-supervised Learning
(vii) Incremental Learning
(viii) Image Saliency
(ix) Incremental Learning

Achievements

1. Awarded **University of Manitoba Graduate Fellowship (UMGF)** at the University of Manitoba 2022-2023.
2. Awarded **International Graduate Student Entrance Scholarship (IGSES)** at the University of Manitoba 2021.
3. Got NPTEL Elite Certification in Deep Learning for Visual Computing, 2018.

Professional Experience

Teaching Assistant: Machine Learning (COMP 4360), Computer Graphics I (COMP 3490), Software Engineering (COMP 3350), Object Orientation (COMP 2150), Data Structures and Algorithms (COMP 2140) at the University of Manitoba.

Technical Skills

Programming Languages: C, C++, Java, SQL, Python. *Deep Learning Frameworks:* Tensorflow, PyTorch (4 Years+).

Big Data Platform: Hadoop, Map-Reduce, Hive, Hbase, Pig, Scoop..

Publications

C7 **Joint Visual Semantic Reasoning: Multi-Stage Decoder for Text Recognition** *Oct 2021*
Ayan Kumar Bhunia, Aneeshan Sain, Amandeep Kumar, **Shuvozit Ghose**, Pinaki Nath Chowdhury, Yi-Zhe Song
IEEE Conference on International Conference on Computer Vision ***(ICCV)*** *PDF*

C6 **MetaHTR: Towards Writer-Adaptive Handwritten Text Recognition** *June 2021*
Ayan Kumar Bhunia, **Shuvozit Ghose**, Amandeep Kumar, Pinaki Nath Chowdhury, Aneeshan Sain, Yi-Zhe Song
IEEE Conference on Computer Vision and Pattern Recognition ***(CVPR)*** PDF

C5 **Modeling Extent-of-Texture Information for Ground Terrain Recognition** *Sept 2020*
Shuvozit Ghose, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal
IEEE International Conference on Pattern Recognition ***(ICPR)*** PDF

C4 **UDBNET: Unsupervised Document Binarization Network via Adversarial Game** *Sept 2020*
Amandeep Kumar*, **Shuvozit Ghose***, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal
IEEE International Conference on Pattern Recognition ***(ICPR)*** PDF

C3 **Fractional Local Neighborhood Intensity Pattern for Image Retrieval using Genetic Algorithm** *Sept 2020*
Shuvozit Ghose, Abhirup Das, Ayan Kumar Bhunia, Partha Pratim Roy
Multimedia Tools and Applications PDF

C2 **A Deep One-Shot Network for Query-based Logo Retrieval** *July 2019*
Ayan Kumar Bhunia, Ankan Kumar Bhunia, **Shuvozit Ghose**, Abhirup Das, Partha Pratim Roy, Umapada Pal)
Pattern Recognition PDF

C1 **User Constrained Thumbnail Generation Using Adaptive Convolutions** *May 2019*
Perla Sai Raj Kishore, Ayan Kumar Bhunia, **Shuvozit Ghose**, Partha Pratim Roy
International Conference on Acoustics, Speech, and Signal Processing ***(ICASSP)*** PDF