Tabish Syed

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EDUCATION

Ph.D. in Computer Science
McGill University, Montreal (Feb. 2023)
CGPA: 3.93/4

Bachelor of Technology(Hons.) and MS by research in Electronics and Communication Engineering
IIIT Hyderabad, India, 2016
MS Stream: Computer Vision and Image Processing
CGPA: 9.06/10

WORK EXPERIENCE

Postdoctoral Fellow 2023 -
Centre for Research in Neuroscience,
Research Institute of McGill University Health Centre, Montreal, Canada.

Course Lecturer W 2020
McGill University, Montreal, Canada.

- Introduction to Computer Systems (Winter 2020)

Graduate Teaching Assistant F 2019, W 2019, F 2018, W 2018, F 2017
McGill University, Montreal, Canada.

- Introduction to Computer Science (Fall 2017, Fall 2018, Winter 2019)
- Computational Perception (Winter 2018)
- Fundamentals of Computer Vision (Fall 2018,Fall 2019)
- Introduction to Software Systems (Winter 2019)

Undergraduate Teaching Assistant Monsoon 2012, Spring 2013, Monsoon 2015
IIIT-Hyderabad. Hyderabad, India.

- Basic Electronic Circuits (Monsoon 2012)
- Linear Electronic circuits (Spring 2013)
- Time Frequency Analysis (Monsoon 2015)

Machine Learning Intern Summer 2017
Les Technologies Clemex Inc.,
Montreal, Canada

Research Assistant 2016
Medical Image Processing group(MIP),
Center for Visual Information Technology (CVIT), Hyderabad, India

Research Intern Summer 2013
Healthcare Technology Innovation Center,
IIT-Madras Research Park., Chennai, India.

AWARDS AND HONORS

- Kertland Family Fellowship, 2019,2020
- Grad Excellence Award in Computer Science, McGill University.
- NSERC Doctoral Scholarship, McGill University
- Gold Medal for Academic Performance, IIIT-Hyderabad
- Dean's Merit list, IIIT-Hyderabad in 7 out of 8 semesters for academic excellence.

PUBLICATIONS Google Scholar

Journals:

- *Cardiomyocyte orientation recovery at micrometer scale reveals long-axis fiber continuum in heart walls."*
  Dileep D, **Syed TA**, Sloan TFW, Dhandapany PS et. al.
  The EMBO Journal 42.19, 2023.
- *Organizing Principles of Astrocytic Nanoarchitecture in the Mouse Cerebral Cortex*
  Salmon CK, **Syed TA**, Kacerovsky JB, Alivodej, N et. al
  Current Biology 33.5, 2023
- *Association of Plasmodium berghei With the Apical Domain of Hepatocytes Is Necessary for the Parasite's Liver Stage Development*
  Balasubramanian L, Zuzarte-Luís V, **Syed TA**, Mullick D, et al. *Frontiers in Cellular and Infection Microbiology 9,* 2020
- *Numerical Inversion of Circular arc Radon Transform*
  Syed TA, Krishnan VP, Sivaswamy J. *IEEE Transactions on Computational Imaging,* 2016
- *A comprehensive retinal image dataset for the assessment of glaucoma from the optic nerve head analysis.*
  Sivaswamy J, Krishnadas SR, Chakravarty A, Joshi G and **Syed TA**. *JSM Biomedical Imaging Data Papers 2, no. 1,* 2015

Conferences:

- *Ultrastructure analysis of cardiomyocytes and their nuclei*
  Syed TA, Wang Y, Dileep D et al. *Functional Imaging and Modeling of the Heart,* 2023
- *Minimizng Non-Holonomicity: Finding Sheets in Fibrous Structures.*
  Samari B, **Syed TA**, Siddiqi K. *Proceedings of Information Processing in Medical Imaging,* 2019
- *Estimating Sheets in the Heart Wall*
  Syed TA, Samari B, Siddiqi K. *International Workshop on Statistical Atlases and Computational Models of the Heart,* 2018
- *Latent Factor Model Based Classification for Detecting Abnormalities in Retinal Images.*
  Syed TA, Sivaswamy J. *Asian Conference on Pattern Recognition,* 2015

- *PET Image Reconstruction And Denoising On Hexagonal Lattices.* **Syed TA**, Sivaswamy J. *International Conference on Image Processing,* 2015
- *Drishti-GS: Retinal Image Dataset for Optic Nerve Head(ONH) Segmentation.* Sivaswamy J, Krishnadas SR, Joshi GD, Jain M and **Syed TA**. *IEEE International Symposium on Biomedical Imaging,* 2014

Theses:

- *Tomographic Reconstruction Of Images From Noisy And Incomplete Sinogram Data.*, Masters Thesis
- *Cellular Geometry and Tissue Organisation in the Heart and the Brain.* , PhD Thesis

COMPUTER SKILLS

github: @HaaPut
Languages & Software: C, C++, Java, Python, MATLAB