

Senuri De Silva

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EDUCATION

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- National University of Singapore** January 2022 - Present
• *PhD candidate, Yong Loo Lin School of Medicine* CGPA: 4.00
 - University of Moratuwa, Sri Lanka** Nov 2015 - Jan 2020
• *First Class Honors, Bsc.Eng (Hons) specialized in Computer Science and Engineering.* CGPA: 3.87

SELECTED RESEARCH (8 FIRST-AUTHOR PUBLICATIONS + 2 UNDER REVIEW + 2 WORK IN PROGRESS)

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- PhD Candidate: Advised by Dr. Jayantha Gunartne and Prof. Wong Limsoon**
• *Institute of Molecular and Cell Biology, Agency for Science, Technology and Research (A*STAR)*
 - Focus:** Computational proteomics for cancer subtype discovery and biomarker development, with emphasis on tumor microenvironment dynamics, and translational relevance to immunotherapy and metastasis.
 - De Silva, S.,** Alli-Shaik, A., & Gunaratne, J. (2024). Machine Learning-Enhanced Extraction of Biomarkers for High-Grade Serous Ovarian Cancer from Proteomics Data. *Scientific Data*, 11(1), 685.
 - De Silva, S.,** Alli-Shaik, A., & Gunaratne, J. (2024). FlexStat: combinatory differentially expressed protein extraction. *Bioinformatics Advances*, 4(1), vbae056.
 - Undergraduate Researcher: Advised by Prof. Dulani Meedeniya and Dr. Sampath Jayarathna**
• *University of Moratuwa*
 - Focus:** Machine learning and deep learning model development for attention deficit hyperactivity disorder (ADHD) identification using eye movements and functional MRI data in children and adults.
 - Selected publications:**
 - De Silva, S.,** Dayarathna, S., Ariyaratne, G., Meedeniya, D., Jayarathna, S., & Michalek, A. M. (2021). Computational Decision Support System for ADHD Identification. *International Journal of Automation and Computing*, 18(2), 233-255. DOI: 10.1007/s11633-020-1252-1
 - De Silva, S.,** Dayarathna, S., Ariyaratne, G., Meedeniya, D., Jayarathna, S., Michalek, A. M., and Jayawardena, G. (2019, July). A rule-based system for ADHD identification using eye movement data. In *2019 Moratuwa Engineering Research Conference (MERCon)* (pp. 538-543). IEEE. DOI:10.1109/MERCon.2019.8818865
 - Ariyaratne, G., **De Silva, S.,** Dayarathna, S., Meedeniya, D., and Jayarathne, S. (2020, February). ADHD identification using convolutional neural network with seed-based approach for fMRI data. In *Proceedings of the 2020 9th International Conference on Software and Computer Applications* (pp. 31-35). DOI: 10.1145/3384544.3384552

HONORS AND AWARDS

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- Early Career Researcher Poster Competition Finalist** Sep 2023
–HUPO 2023 World Congress for the poster in Data Integration and Innovative Computational Methods for System Biology category
 - Best Oral Talk Award** Dec 2022
–Awarded at the 1st Asian Student Council Symposium, preceding the GIW XXXI/ISCB-Asia V conference
 - Singapore International Graduate Award (SINGA)** Dec 2020
–Awarded to pursue doctoral studies at National University of Singapore
 - CINTEC Award** Dec 2020
–Awarded for the Best Final Year Project of Year at University of Moratuwa Annual Awards Ceremony
 - Best Paper Award** July 2019
–Awarded for the Best Paper of the Biomedical Engineering Category at MERCon19.

WORK EXPERIENCE

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- Enactor UK - Senior Software Engineer** Feb 2020 - Dec 2021
–Performance & Scalability, Development and Operations. Developed and optimized distributed file system workflows.
 - WSO2 - Software Engineering Intern** Jun 2018 - Dec 2018
–Developed report generation for Stream Processing Analytic Application. Developed a Siddhi extension to support report generation for streaming data.

REFERENCES

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- Dr. Jayantha Gunaratne: Principal Investigator of Translational Biomedical Proteomics Lab, Institute of Molecular And Cell Biology (IMCB) jayanthag@imcb.a-star.edu.sg
 - Prof. Dulani Meedeniya: Senior Lecturer, Department of Computer Science and Engineering, University of Moratuwa dulanim@cse.mrt.ac.lk