



VIJINI MALLAWAARACHCHI

+61 44 9531 919

viji.mallawaarachchi@gmail.com

[linkedin.com/in/vijinimallawaarachchi](https://www.linkedin.com/in/vijinimallawaarachchi)

github.com/Vini2

EDUCATION

Doctor of Philosophy | *Computer Science*

School of Computing, The Australian National University

- Computational Biology and Bioinformatics

August 2018 – present

Canberra, Australia

Bachelor of Science | *Computer Science and Engineering*

Department of Computer Science and Engineering, University of Moratuwa

- GPA: 4.01/4.20 (3.92/4.00). First Class Honours with Dean's list for all 8 semesters

August 2016 – May 2018

Moratuwa, Sri Lanka

EMPLOYMENT HISTORY

Tutor

School of Computing, The Australian National University

July 2019 - Present

Canberra, Australia

Junior Consultant

Department of Computer Science and Engineering, University of Moratuwa

January - July 2018

Moratuwa, Sri Lanka

Intern Software Engineer

Sysco Labs Sri Lanka (previously known as CAKE LABS (Pvt) Ltd.)

June - December 2016

Colombo, Sri Lanka

PUBLICATIONS

First Authored Publications

Improving metagenomic binning results with overlapped bins using assembly graphs

May 2021

Vijini Mallawaarachchi, Anuradha Wickramarachchi and Yu Lin

BMC Algorithms for Molecular Biology, Volume 16, Art. No.: 3

GraphBin2: Refined & overlapped binning of metagenomic contigs using assembly graphs

Sep 2020

Vijini Mallawaarachchi, Anuradha Wickramarachchi and Yu Lin.

20th International Workshop on Algorithms in Bioinformatics (WABI 2020)

GraphBin: Refined binning of metagenomic contigs using assembly graphs

June 2020

Vijini Mallawaarachchi, Anuradha Wickramarachchi and Yu Lin

Bioinformatics, Volume 36, Issue 11

Change Detection and Notification of Web Pages: A Survey

February 2020

V. Mallawaarachchi, L. Meegahapola, R. Madhushanka, E. Heshan, D. Meedeniya, S. Jayarathna

ACM Computing Surveys (CSUR), Volume 53, No. 1, Art. No. 15

Experiential Learning in Bioinformatics

May 2018

V. Mallawaarachchi, A. Wickramarachchi, A. Welivita, I. Perera and D. Meedeniya

International Journal of Emerging Technologies in Learning (IJET), Volume 13, Issue 12

Co-Authored Publications

PlasLR Enables Adaptation of Plasmid Prediction for Error-Prone Long Reads

(Under Review)

Anuradha Wickramarachchi, Vijini Mallawaarachchi, Lianrong Pu and Yu Lin

Under Review at PLOS CB. Presented at GLBIO 2021

MetaBCC-LR: Metagenomics Binning by Coverage and Composition for Long Reads Anuradha Wickramarachchi, Vijini Mallawaarachchi, Vaibhav Rajan and Yu Lin 28th Conference on Intelligent Systems for Molecular Biology (ISMB 2020)	July 2020
Managing Complex Workflows in Bioinformatics A. Welivita, I. Perera, D. Meedeniya, A. Wickramarachchi and V. Mallawaarachchi IEEE Transactions on NanoBioscience, Volume 17, Issue 3	May 2018
Enhanced Student Learning in Proteomics A. Wickramarachchi, V. Mallawaarachchi, A. Welivita, I. Perera and D. Meedeniya IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE 2018), Wollongong, Australia	December 2018

PRESENTATIONS

GraphBin2: Refined & overlapped binning of metagenomic contigs using assembly graphs 20th International Workshop on Algorithms in Bioinformatics (WABI 2020)	Sep 2020
GraphBin: Refined binning of metagenomic contigs using assembly graphs BDSI Interactive Seminar Series organised by the ANU Biological Data Science Institute (BDSI)	September 2019
Random Forest Classifier based Scheduler Optimization for Web Crawlers 7th ACM International Conference on Software and Computer Applications (ICSCA 2018), Malaysia	February 2018

HONORS AND AWARDS

ANU PhD Scholarship (International) and HDR Merit Scholarship Offered by The Australian National University, Australia	August 2018
Excellent oral presentation certificate 7th ACM International Conference on Software and Computer Applications (ICSCA 2018), Malaysia	February 2018
ACM-W Scholarship Awarded by the ACM's Council on Women in Computing for attendance of research conferences	January 2018
Dean's List Overall GPA of 3.8 or above at the Department of CSE, University of Moratuwa	February 2014 - December 2017
University Award Special recognition award to recognise student achievements by the University of Moratuwa	December 2015
Best Innovation award Google I/O Sri Lanka Hackathon	May 2015

CERTIFICATIONS

Deep Learning Specialization An online non-credit course conducted by DeepLearning.AI and offered through Coursera	(In-progress)
Machine Learning An online non-credit course authorized by Stanford University and offered through Coursera	April 2021

TEACHING EXPERIENCE

Tutor for COMP COMP2400/COMP6240 - Relational Databases School of Computing, The Australian National University	Semester 2 2021 Canberra, Australia
Tutor for COMP7240 - Introduction to Database Concepts School of Computing, The Australian National University	Winter 2020 Canberra, Australia
Tutor for COMP COMP2400/COMP6240 - Relational Databases School of Computing, The Australian National University	Semester 2 2020 Canberra, Australia
Tutor for COMP COMP2400/COMP6240 - Relational Databases School of Computing, The Australian National University	Semester 2 2019 Canberra, Australia

Visiting Instructor

Department of Computer Science and Engineering, Unniversity of Moratuwa

February - December 2017

Moratuwa, Sri Lanka

PROFESSIONAL MEMBERSHIPS

Student member Association for Computing Machinery	2018 - Present
Student member Institute of Electrical and Electronics Engineers	2015 - Present
Student member Institution of Engineers Sri Lanka	2017 - Present
Student member Computer Society of Sri Lanka	2017 - 2018

EXTRA-CURRICULAR ACTIVITIES

Member – Rotaract Alumni University of Moratuwa, Sri Lanka	2018 - 2019 Moratuwa, Sri Lanka
Member and Writer – Rotaract Club University of Moratuwa, Sri Lanka	2016 - 2017 Moratuwa, Sri Lanka
Microsoft Student Partner Microsoft Sri Lanka	2016 - 2017 Colombo, Sri Lanka

SKILLS

Programming: Python, C, C++, JAVA
Document Creation: Microsoft Office Suite, LibreOffice Suite, LaTeX
Languages: English (Professional proficiency), Sinhalese (Native proficiency)

REFEREES

Dr. Yu Lin

Ph.D., EPFL, Switzerland

yu.lin@anu.edu.au

+61 2 6125 4509

Prof. Gavin A. Huttley

Ph.D., University of California, Riverside, CA, US

gavin.huttley@anu.edu.au