

Raktim Mondol

Permanent Resident • Full-time working rights
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EDUCATION

UNSW, SYDNEY

PHD IN COMPUTER SCIENCE & ENGINEERING (CONTINUING)

Anticipated Completion Date
Dec 2024

Project: Histopathology image and genetic data analysis using AI

RMIT UNIVERSITY

MS BY RESEARCH IN COMPUTER

SCIENCE & BIOINFORMATICS

Graduated Dec 2019 | Melbourne, VIC

Graduated with High Distinction

 Thesis Summary

SKILLS

Languages:

R • Python • SQL • \LaTeX

Deep Learning Framework:

Pytorch • Tensorflow

Distributed & Cloud Computing:

AWS • GCP • Galaxy

IDE:

Spyder, Jupyter Notebook, Rstudio

Software:

Stata, SPSS, MATLAB

OS:

Linux • Windows

AWARDS

- PhD Scholarship at UNSW (2020)
- Master's by Research with High Distinction (2019)
- Master's Scholarship at RMIT (2017)
- Bachelor with High Distinction (2013)

LINKS

Github:// [raktim-mondol](#)

LinkedIn:// [rmondol](#)

Researchgate:// [RaktimMondol3](#)

Twitter:// [@raktimmondol](#)

Academia:// [RMondol](#)

COURSEWORK

ONLINE

Machine Learning

Deep Learning

R Programming

SUMMARY & RESEARCH INTERESTS

I am an experienced data scientist and programmer, with deep expertise in artificial intelligence (AI), bioinformatics, computer vision (CV), and high-performance computing (HPC). My solid research background includes advanced data analytics, statistical modeling, and developing AI-driven solutions that address complex, real-world challenges. I bring a strong team-oriented approach, a positive and solutions-focused attitude, and exceptional communication skills that support productive collaboration across diverse teams and stakeholders. My commitment to innovative, data-driven insights makes me well-prepared to lead and mentor others in achieving impactful outcomes.

EXPERIENCE

CASUAL ACADEMIC | UNSW

July 2021 – Continuing | Sydney, NSW

- Conduct Laboratory and Tutorial Classes

TEACHING ASSISTANT | RMIT UNIVERSITY

July 2017 – Oct 2019 | Melbourne, VIC

- Conducted Laboratory and Tutorial Classes

RESEARCH

BIOMEDICAL IMAGE COMPUTING | DOCTORAL RESEARCHER

March 2021 – Continuing | SYD, NSW

Developing AI model to assist pathologist in breast cancer identification and treatment recommendation.

NEUROSyd RESEARCH LABORATORY | POSTGRADUATE RESEARCHER

March 2017 – 2019 | SYD, NSW

Worked on developing a deep learning model and bio-informatics pipeline to extract bio-markers from high-dimensional data.

PUBLISHED JOURNAL

Mondol, R.K.; Millar, E.K.A.; Sowmya, A.; Meijering, E.

BioFusionNet: Deep Learning-Based Survival Risk Stratification in ER+ Breast Cancer Through Multifeature and Multimodal Data Fusion, in *IEEE Journal of Biomedical and Health Informatics*, 2024

Code: <https://github.com/raktim-mondol/BioFusionNet>

Mondol, R.K.; Millar, E.K.A.; Graham, P.H.; Browne, L.; Sowmya, A.; Meijering, E.

hist2RNA: An Efficient Deep Learning Architecture to Predict Gene Expression from Breast Cancer Histopathology Images, in *Cancers*, 2023

Code: <https://github.com/raktim-mondol/hist2RNA>

Mondol, R.K., N. D. Truong, M. Reza, S. Ippolito, E. Ebrahimie, and O. Kavehei

AFExNet: An Adversarial Autoencoder for Differentiating Breast Cancer

Sub-types and Extracting Biologically Relevant Genes, in *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2021

Code: <https://github.com/NeuroSyd/breast-cancer-sub-types>