

Mudra Lad

ladmudra@gmail.com | +61 426 906 852 | ladmudra.com

Master of Genome Analytics graduate (GPA 4.0). Proficient in ACMG/AMP, ClinGen VCEP, and CanVIG frameworks. Skilled in ClinVar, ClinGen, gnomAD, LOVD, Franklin, in-silico platforms, IGV, and Python/R bioinformatics. Developer of an adaptable Python + web-based tool for automation of hereditary cancer variant curation.

EDUCATION

Monash University Mar. 2025 – Jun. 2026
Master of Genome Analytics Melbourne

- GPA: **4.000**
- Program Support Officer (Student Ambassador) for Master of Genome Analytics.
- Pre-analytics, bioinformatics, and variant curation using the ACMG/AMP guidelines + Clingen expert panels.
- Built a Python + HTML/JS tool to streamline variant evidence retrieval, aligned to curation guidelines increasing efficiency while reducing transcription errors.

Monash University Feb. 2022 – Dec. 2024
Bachelor of Science, Extended Major-Genetics and Genomics, Minor-Developmental Biology Melbourne

- GPA: **3.957**
- StemInclusive co-founder- *Science Future Leaders 2024 cohort*.
- Events officer- *Monash Biological Society*.

EXPERIENCE

Peter MacCallum Cancer Centre Mar. 2026 – Jun. 2026
Placement student Melbourne

- Curated hereditary cancer variants using ACMG/AMP and ClinGen VCEP guidelines.
- Curated and presented a complex copy number variant (multi-exon duplication) patient case.
- Attended collaborative education sessions in somatic and haematological variant interpretation.

Monash Synthetic Biology Tech Dec. 2022 – Dec. 2024
Project design member Monash University

- Designed the proof of concept assay for Melanoma detection using microRNAs within a student-led team.
- Presented to 200+ attendees at Australasian Synthetic Biology Conference-Canberra.

GATC Lab Feb. 2024 – Jun. 2024
Undergraduate research internship Monash University

- Conducted a research project to inform *Arabidopsis* development.
- Undertook DNA extraction, PCR, qPCR and RT-PCR experiments.
- Directly contributed to the understanding of triplet-repeat expansion through genotyping and phenotyping of biological samples.

Smyth Lab Jun. 2024 – Jul. 2024
Winter research scholarship student Monash University

- Critically analysed the capability and effects of novel therapeutics on genetic models of Polycystic Kidney Disease.
- Performed HeLa cell passage, western blotting, and immunostaining under aseptic techniques.
- Created automated workflows to expedite data analysis and reduce human error using bioinformatics.

VOLUNTEERING

ClinGen Oct. 2025 – Current
Baseline volunteer Remote

- Critically analysed and annotated literature to inform variant curation guidelines.

EXTRACURRICULARS

Awards Genetics Society of Australasia 2024 - *Undergraduate travel award*, Faculty of Science - *Dean's List*

Leadership Science Future Leaders cohort 2024, Science Student Ambassador, Peer Mentor

Certifications Genomics Our Way-Indigenous Australians (ALIGN); Arts (Classical Dance)

