

# Vaibhav Kulkarni

## Bioinformatics Researcher and Graduate Student

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### EXPERIENCE

**Master's Research Student,** Sep 2023 - Aug 2025

*for Dr. Stéphane Aris-Brosou @ The University of Ottawa*

Leveraging bioinformatic tools to unravel evolutionary relationships among viruses, contributing to a deeper understanding of viral species diversity.

**Honors Research Student,** Sep 2022 - Apr 2023

*for Dr. Jan Mennigen @ The University of Ottawa*

Conducted genetic research on goldfish hypoxia tolerance, focusing on histone modifications. Designed and executed lab experiments to explore stress adaptation mechanisms.

**Lab Demonstrator,** Sep 2023 - Dec 2024

*The University of Ottawa*

Managed 4 detached weekly lab sections and grading for multiple undergraduate biology courses, implementing rigorous assessment methods to evaluate student performance accurately.

### EDUCATION

**Honours Bachelor of Science in Biology, Magna Cum Laude,** Sep 2019 - Apr 2023

*The University of Ottawa*

**High School Diploma Equivalent,** Sep 2016 - Apr 2018

*Jai Hind College, Mumbai*

### CERTIFICATIONS

**Compute Canada HPC Cluster Training,** Aug 2023

**Workplace Hazardous Materials Information System Certification,** Aug 2022

*The University of Ottawa*

**Experimental Fish Canada Certification,** Aug 2022

*Canadian Aquaculture Institute*

### SKILLS

**Laboratory:** Flow Cytometry, Western Blots, Microscopy, Chromatography, Cell Culture, qPCR, ELISA

**Computational:** Genomics, Data Analysis, Python(pandas), R, Bash, LaTeX, Compute Canada - HPC, Web Dev, HTML, CSS, JavaScript, GitHub, Google Cloud APIs, Docker, Machine Learning

**Communication:** Academic Writing (Research Papers, Abstracts, Proposals); APA and MLA Citation Styles among others; Teamwork, Adaptability, Leadership, Presentations, Knowledge Dissemination

### LANGUAGES

**English** (Proficient), **Marathi** (Native), **Hindi** (Proficient), **ASL** (Basic), **French** (Conversational)

### COMMUNITY ENGAGEMENT

**Professional Development Officer;** Biology Graduate Students' Association, Oct 2024 - Oct 2025

Developing career-focused workshops on risk identification, equipping graduate students with skills in resilience, academic planning, and effective career decision-making.

**Graduate EDI Representative;** Faculty of Science @ uOttawa, Oct 2024 - Oct 2025

Advocating for inclusivity and leading outreach to support over 500 underrepresented student voices at the university.

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