

Simran Kriplani

Biology and Psychology at University of Toronto
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SKILLS

Lab skills: Titrations, Chromatography, Pipetting, Dilutions

Computer skills: Python, R, C, MS Excel, MS PowerPoint, MS word, Canva

Communication: Leadership, Presentations, Scientific writing, Article writing, Infographics, Marketing

Research skills: Critical thinking, Data analysis, Research papers, and Posters

Areas of Interest: Healthcare, Social and Behavioural Psychology, Clinical Psychology, Mood Disorders, and Mental Health

EDUCATION

UNIVERSITY OF TORONTO

Toronto, Ontario

Honours Bachelor of Science (HBS) in Life Sciences - Biology and Psychology

May 2026

Relevant Coursework: Biological and Cognitive Psychology, Social Psychology, Research methods, Clinical Psychology, Cognitive Neuroscience, Behaviour Modification, Statistics.

EXPERIENCE

MYLAB DISCOVERY SOLUTIONS – Molecular Biology Intern

Pune, India

July 2023

- Supported daily operations in a wet laboratory, contributing to key **diagnostic testing** processes.
- Assisted 5+ analytical processes including **PCR**, lyophilization, and **RNA extraction**.
- Studied literature regarding safety, operating procedures, **disease detection** kits, and MyLab's healthcare solutions.
- Gained valuable insight into the dynamic realm of diagnostic testing as well as **biomedical research** and **development**.

SERUM INSTITUTE OF INDIA – Molecular Diagnostics Trainee

Pune, India

July 2022

- Trained in 3+ advanced techniques like **SDS-PAGE**, **protein quantification**, and **HPLC**.
- Studied and applied molecular diagnostic methods such as **ELISA** and **qPCR**.
- Gained exposure to multiple departments including R&D, quality assurance, clinical trials, and quality control.

ACADEMIC PROJECTS

INTEGRATIVE RESEARCH POSTER PROJECT - UofT

Utilizing microfluidic technology to open pathways to scalable, efficient and customizable lab-grown meat production, catering to the growing global demand for sustainable dietary options.

- Integrated knowledge across various biological disciplines by considering empirical research on cell biology, ecology, physiology, and biochemistry.
- Worked collaboratively with peers to create a scientific poster and communicated scientific concepts and ideas effectively during a conference-style poster session.
- Developed information literacy skills such as searching, evaluating, and critically reading scientific sources.

ECOLOGY AND EVOLUTIONARY BIOLOGY LABORATORY - UofT

Field, lab and computational approaches to ecology and evolution.

- Collected data** through outdoor field work to explore topics of population genetics, community ecology, and biodiversity.
- Conducted lab experiments and wrote papers on phenotypic plasticity, genetic drift, eutrophication, and insect biodiversity.
- Processed and analyzed field and lab data through **Python, R and Excel** to model ecological processes and visualize trends.

INTEGRATIVE MULTIMEDIA DOCUMENTARY PROJECT - UofT

The effects of a viral infection on host metabolism and energy diversion.

- Critically evaluated scientific literature to formulate logical arguments about the viral hijacking of immune systems.
- Collaborated effectively with peers to create a documentary-style video that relays complex scientific information using engaging storytelling techniques, visual aids, and humor.
- Developed skills in science communication, video production, and project management.

LEADERSHIP, TEAM-WORK AND EXTRACURRICULARS

SYNAPSE UofT - Vice President of Communications

Toronto, Ontario

- Led a team to create engaging material that bolsters scientific discussion about neuroscience in an accessible and easy-to-understand manner.

PRESENT

PSYCHOLOGICAL HEALTH SOCIETY UofT - Director of Marketing

Toronto, Ontario

- Fostered an inclusive and supportive environment in the realm of mental health, through social media.

PRESENT

VOLUNTEERING

IB CAS PROGRAM

July 2021 - May 2022

- Crowdfunding for covid relief.
- Serving food to the society.
- Advocacy about various global issues through poetry and art.