

# Serena Science

Address, City, Province, Postal code

Phone number

Email address

Portfolio, blog, website, LinkedIn (optional)

## SUMMARY OF QUALIFICATIONS

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- Fourth year biochemistry student at the University of Ottawa
- Problem-solving skills developed through two years of experience in laboratory research
- Excellent communication skills honed through two years of mentoring and tutoring
- Very good technical skills in Microsoft Word, Excel, PowerPoint and Internet research tools
- Fluent in English and French, intermediate-level Italian
- Member of the Canadian Society of Biology

## EDUCATION

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### Bachelor of Science, Honours in Biochemistry

year - present

University of Ottawa, ON

- Major projects:
  - Assessed the genetic composition of micro-organisms including bacteria and fungi
  - Conducted research on the structure of animal and plant tissue cells
  - Participated in field and lab work to identify organisms in the Mer Bleue Conservation Area
  - Evaluated the structure and functioning of animal pathogens and toxins
- Expected date of graduation: month, year

## PROFESSIONAL EXPERIENCE

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### Research Assistant CO-OP

year - present

Organization, City, Province

- Researched and analyzed new information and resources related to the ramifications of infestation-related crop destruction to prepare weekly update reports for the research team
- Conducted experiments and data collection in plant heredity and breeding in collaboration with the senior researcher in order to update departmental databases
- Identified and classified plant species by *Plantae* and *Magnoliophyta* to facilitate further research on the specimens

### Laboratory Assistant

year - year

Organization, City, Province

- Collected, analyzed and interpreted results of plant samples to study the effects of common pesticides on plant development using spectrophotometry techniques
- Worked independently with minimum supervision as well as in a team to accomplish weekly goals, such as updating data logbooks and creating laboratory reports
- Participated in weekly health and safety inspections to maintain sanitization and safety standards

### Biology Mentor

year - year

Organization, City, Province

- Taught effective study techniques to students who needed guidance throughout the academic session
- Mentored first-year science students on biology and chemistry courses on a weekly basis
- Provided academic and emotional support to first year students to help them transition to the university environment

Serena Science

**Tutor**

year - year

Organization, City, Province

- Explained biological concepts to high school students on a weekly basis after school hours
- Devised alternative methods of teaching based on student learning styles to facilitate and accommodate to students' various learning needs

**VOLUNTEER EXPERIENCE**

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**Nurse Assistant**

year - present

Organization, City, Province

- Escorted patients to various tests and appointments at the hospital
- Assisted nurses with patient care by entering patients in logbooks and meeting basic and immediate patient and visitor needs
- Classified patient documents with discretion to facilitate the nurses' workload

**Facilitator**

summer year

Organization, City, Province

- Organized a variety of fundraising activities such as volleyball tournaments, bake sales and talent concerts
- Visited elementary schools in underprivileged areas of Zambia to assess community schooling needs
- Helped build a school and a cultural centre to provide the region with necessary education and community engagement facilities
- Participated in cultural events with local students to gain a better understanding of the culture and the needs of the community

**LABORATORY SKILLS**

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- Aseptic techniques
- Biochemical assays
- SDS-PAGE, PCR
- HPLC, Flash Column, Ion Exchange and Thin Layer Chromatography
- Electrophoresis
- Sequencing
- Restriction Endonuclease Digest
- Microscope work
- Spectrophotometry
- Nuclear Magnetic Resonance and Mass Spectroscopy
- Simple and differential staining
- Titration
- Recombinant DNA technology

**AWARDS**

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**Fourth Annual Poster Day Winner**, Department of Biochemistry, University of Ottawa, ON

year

**Dean's Honour List**, University of Ottawa, ON

year - year

**Admission Scholarship**, University of Ottawa, ON

year - year

**INTERESTS AND ACTIVITIES**

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- Enjoys playing Ultimate Frisbee and practising yoga
- Portaged in Algonquin Park for a week
- Wildlife amateur photographer