

# Ksenia Kolosova

[ksenia.kolosova@mail.mcgill.ca](mailto:ksenia.kolosova@mail.mcgill.ca)

Address (CANADA): 3794 rue Evelyn, Montreal, QC

Address (UK): 15 Bradshaw Street, Lancaster, LA1 3BE

Phone: +1(514) 582-2721

## EDUCATION

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**McGill University**, Montreal, QC, Canada

B.Sc. in Quantitative Biology, expected 05/2017.

Current GPA: 3.56

**Sep 2013 – Present**

**Lynbrook High School**, San Jose, CA, USA

High School Diploma (GPA: 3.73)

**Sep 2009 – June 2013**

## THEORETICAL AND PRACTICAL UNIVERSITY COURSES

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### Biology

Molecular Biology, Cell Biology & Metabolism, Basic Genetics, Intro to Ecology and Evolution, Mathematical Models in Biology, Developmental Biology

### Chemistry

General Chemistry 1 with lab, General Chemistry 2 with lab, Organic Chemistry 1 with lab

### Mathematics

Calculus 3, Ordinary Differential Equations, Linear Algebra, Probability

### Computer Science

Foundations of Programming

### Physics

Mechanics and Waves with lab, Electromagnetism and Optics with lab, Introduction to Biophysics

### Geography

Intro GIS with lab, Environmental Systems

## OTHER SKILLS

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### Foreign Languages

- Fluency in Russian
- Proficiency in French

### Computer Abilities

- Proficiency in Microsoft Office suite (Word, Excel, PowerPoint)
- Classroom experience in ArcGIS, AutoCAD, Java, MATLAB

## PRACTICAL EXPERIENCE

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**Homework Zone**, Verdun Elementary School, Verdun, QC

Volunteer Tutor for after-school program

**Sep 2014 – Dec 2014**

- Worked with 2<sup>nd</sup> grade students on schoolwork in English and French, and facilitated activities

**Field Notes: McGill Geography Undergraduate Research Journal**, McGill University

Undergraduate Editorial Team

**March 2014 Publication**

- Editing undergraduate research papers, working with the authors and graduate editors

**Sempervirens Outdoor School**, Boulder Creek, CA

Science Camp Counselor

**March 2012 and 2013 (one week)**

- Supervised children on 24 hour basis
- Aided group leaders in teaching youth (age 10-11) about environmental issues and conservation

### Peer Tutoring

Tutor various school subjects for 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grade students

**Sep 2011 – May 2013**

- French I, Algebra II and Trigonometry, Pre-Calculus

**CNR-Pisa** supervised by Dr. F. Dinelli

Research assistant, short-term

**July 2012 – August 2012 (two weeks)**

- Imaging of amyloid fibers using Atomic Force Microscopy
- Results presented in the poster “Nanoscale dynamics of Amyloid- $\beta$  in air and liquid environments using Atomic Force Microscopy” at the 4<sup>th</sup> Multifrequency AFM conference, Madrid, SPAIN

**University of Lancaster, Physics Department**

Summer student, short-term

**July 2011 (one week)**

- Atomic Force Microscopy imaging of graphene flakes.

## **HONORS**

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**James McGill Scholarship (2013)**

**McGill University, Montreal, Canada**

**USA National Merit Finalist (2013)**

**Lynbrook High School, CA,, USA**

## **EXTRACURRICULAR ACTIVITIES**

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**Flute at McGill University**

**Oct 2013 – Present**

- Performed with McGill Symphonic Band Club and Classical Music Club
- Student volunteer with New Horizons Community Band