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# Elizabeth R. Russell

3393 Ali Ala Loop  
Ruskin, FL 33570

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h. (813)294-8933

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## SUMMARY

Dynamic and passionate **Educator** with strong classroom management, lesson preparation, curriculum writing, mapping and selection experience. Expertise in modeling to students using scientific method and problem solving to increase content understanding. Adept in working with a variety of student populations. Able to inspire the excitement of learning. Comfort with instructing in subjects outside of science and mathematics. A “go to,” respected team player and leader, used to multi-tasking in high-pressure situations, confident in constantly assessing student/class progress and readjusting lesson planning to match. Exceptionally skilled in:

Classroom management

Creating Content

Microsoft Office: use, instruction, integration into classroom

Grant writing

Adaptation to different learning styles

Tutoring

### Courses:

Biology

Physics

Statistics

Chemistry

Algebra I, II

History

Astronomy

Geometry

English

Earth Science

Pre-Calculus

Basic Math

## CERTIFICATION

**Department of Education, MA**  
**Mathematics, Grades 5-8; # 400997**

**Current**

## EXPERIENCE

*Teacher/Tutor*

### **OnLocationEducation**

- *Nickelodeon Show: Every Witch Way*

*Miami, Fl 3/14 to Present*

*Science Teacher*

### **UpwardBound**

- Instructed Astrobiology, Astronomy, Chemistry
- Prepared lessons, worksheets
- Administered and assessed exams
- Submitted weekly progress reports on all students

N. Dartmouth, MA July 2013

*Long Term Substitute Chemistry Teacher*

### **Hanover High School**

- Instructed stoichiometry
- Prepared lessons, worksheets
- Administered and assessed final exams
- Collected and recorded book returns

Hanover, MA June 2013

*Volunteer*

### **Dartmouth Middle School**

- Volunteering primarily in the Math Lab with grades 6 – 8; and other classrooms as assigned
- Observation of math classrooms

Dartmouth, MA Spring 2013

*Chemistry Teacher*

### **Dartmouth High School**

- Instruction of students in Chemistry, laboratory techniques and Microsoft Excel

Dartmouth, MA 8/11- 6/12

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## EXPERIENCE *cont.*

### *Educator*

#### **CityLab, Boston University**

Boston, MA 1/11 – 8/11

- Instruction of visiting students in gel electrophoresis for DNA and protein, Polymerase Chain Reaction, bacterial transformation, ELISA, micropipette and serial dilution
- Preparation of materials and equipment for laboratory classes
- Inventory and ordering of supplies
- Scheduling and confirmation of school visits
- Instruction of the sciences (Earth Science, Biology, Chemistry, Astronomy)
- SAT and MCAS prep

### *Science Teacher*

#### **UpwardBound**

Brockton, MA 6/10 – 1/11

### *Science/Mathematics Teacher*

#### **Champion Charter School**

Brockton, MA 2004-2008

- Instruction of Mathematics in the following subjects: Algebra, Geometry, Algebra II, Pre-calculus, Calculus, Integrated Mathematics
- Instruction of Science in the following subjects: Astrobiology, Anatomy, Biology
- Created class schedules for 125 students
- Served as an Advisor

### *Resident Experience Teacher*

#### **National Radio Astronomy Observatory**

Green Bank, West Virginia Summer 2006

- One of three chosen out of a field of 100 applicants
- Searching for prebiotic molecules outside of our solar system
- Authored lesson “Molecular Concentration in the Taurus Molecular Cloud”

### *Mathematics Teacher*

#### **Seekonk High School**

Seekonk, MA 9/02-6/03

- Instruction of Mathematics in the following subjects: Geometry, Honors Algebra II and Algebra I.

## TECHNICAL SKILLS AND INSTRUMENTATION

Digital microscopy	Molecular UV/Vis Spectroscopy
ELISA	Gel Electrophoresis (Southern and Western Blotting)
Thermocycler	Mass Spectrometry
Aseptic and laboratory techniques	Bradford and Lowry Assay
Chromatography	Bacterial Staining
Bacterial Transformation	Word, Excel, PowerPoint, Access

## GRANTS

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|--|------|
| MassBioEd Biotechnology Grant for \$16,500   | 2005 |
| ▪ Wrote grant to purchase biotechnology equipment to develop biotechnology academic program for work preparation                         |      |
| Michael Jordan Foundation Grant for \$2,500  | 2005 |
| ▪ Wrote grant to purchase equipment to support Astronomy equipment for Astrobiology course   |      |
| Dartmouth Education Foundation for \$2,000   | 2012 |
| ▪ Wrote grant to send ten high school students to the Boston University Medical Campus CityLab SummerLab Biotechnology week long program |      |

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## PUBLICATIONS

- Contributing author to Vertical Acceleration Methodology – Fractions, 2004
- Contributing author to Vertical Acceleration Methodology – Integers, 2005

## EDUCATION

- **Bridgewater State College, Bridgewater, MA**
- Supplemental Biology Biomedical concentration courses **2009-2011**
- B.S. Recipient 2000, General Chemistry major, Biology minor **2000**