

# Jessica Bowman

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Webpage: <http://www.sou.edu/mcnair/scholars/bowman.html>

## Education

### **Southern Oregon University**

Ashland, Oregon

Bachelor of Science in Biology with an emphasis in pre-medical studies, Anticipated June 2011

Advisor: Dr. David Oline

### **Notre Dame de Namur University**

Belmont, California

Biochemistry Program, Fall 2006-Spring 2007

## Relative Work Experience

### **Southern Oregon University Hannon Library, Ashland, Oregon**

**2007- Present Student Assistant** – Assisted students and faculty at checkout counter, answer telephone, ship and receive items ordered and delivered to and from other surrounding universities, Assist with locating items throughout Hannon Library, Handle small amounts of money, and Educate students and community members about the Hannon library system

### **Gentle Heart Christian Learning Academy, Berlin, Wisconsin**

**2007 Summer Assistant Teacher**- Maintained a safe and active learning environment, Taught basic learning Skills to the children, Engaged their minds with books and creative artwork, Painted murals for the children and their parents to enjoy

## Honors and awards

Current Diversity Scholar 2009

Ronald E. McNair Post Baccalaureate Achievement Program, November 2008- Current

Federal SMART Grant Recipient 2008-Present

SEO Grant 2007-Present

Pell Grant 2007-Present

NDNU Dean's List, Fall 2006- Spring 2007

## Interests

Biochemistry	Biology	Microbiology	Gene Splicing
Chemistry	Forensics	Diseases	

## Organizations and Activities

Volunteer for AWSEM (Advocates for Women in Science, Engineering, and Mathematics), Spring 2009- Current

Volunteer at SOU Student Health and Wellness Center, August 2009

Ho'Hopa Hawaii Club, Winter 2009- Current

Luau, April 2009 participant

Student Orientation Leader, Fall 2008

Ronald E. McNair Post Baccalaureate Achievement Program, November 2008- Current

Volunteer for the Obama Campaign, Wisconsin Summer 2008

BSU (Black Student Union) member, Fall 2007-Current

## Papers and Presentations

Bowman, J. 2010. Chlorophyll Concentration in *Pisum sativum* Wild Type Compared to *Pisum sativum* Dwarf Variant.

Bowman, J. 2010. Population Genetics of German Shepherd Dogs in South America.  
Article Review

Bowman, J. 2010. Three Studies of Human Evolution. Article Review.

Bowman, J. 2010. The Importance of Daphne Major. Book Review.

Bowman, J. 2010. Evolution vs. Intelligent design in Public Classrooms.  
Oral Presentation and Paper.

Bowman, J. 2010. The Origin of Life. Article Review.

Bowman, J. 2010. Effects of Melatonin. Oral Presentation.

Bowman, J. 2009. H1N1: A New World Pandemic. Oral Presentation to 2009 Freshman Student Orientation Leaders.

Bowman, J. 2009. H1N1: A New World Pandemic. Oral Presentation and Internship Paper.

Bowman, J. 2009. Geographic Distribution of Chloroplast Alleles in California Red Fir *Abies magnifica*

Bowman, J. 2009. Stress Hormone.

Bowman, J. 2009. Identifying Functional HisD Mutations of Salmonella.

Bowman, J. 2009. Comparative Microbial Diversity of 16S rDNA Genes from

### Unvegetated Playa Soils and Acid Forest Soils

- Bowman, J. 2009. Triclosan Resistant Strains of *Escherichia Coli*.
- Bowman, J. 2009. Triclosan Resistance in *E. coli* and *S. typhumurium*.
- Bowman, J. 2009. Identifying Functional HisD Mutations of Salmonella.
- Bowman, J. 2009. Electric Potential and Equipotentials.
- Bowman, J. 2009. Voltage Dividers and Resistor Networks.
- Bowman, J. 2009. Magnetic Fields Produced by a Current-Carrying Wire
- Bowman, J. 2009. Interference and Diffraction.
- Bowman, J. 2009. Electromagnetic Induction.
- Bowman, J. 2009. Intensity and Polarization of Light.
- Bowman, J. 2009. Polarization and Sunglasses.
- Bowman, J. 2009. Physics of Polarization.
- Bowman, J; Bulkley, J; Pollack, K; Sincerny, G. 2009. Mapping Activation and Repression Domains of the vnd/NK-2 Homeodomain Protein. Oral presentation and Paper.
- Bowman, J. 2008. Universal Health Care. Oral Presentation.
- Bowman, J. 2008. Cheating. University Seminar Final.
- Bowman, J. 2008. Voting in a Democracy. Oral Presentation.
- Bowman, J. 2008. Paraffin. Slide Show Presentation.
- Bowman, J. 2008. Coriolis Effect.
- Bowman, J. 2008. Physics of Roller Coasters.
- Bowman, J. 2007. Therapeutic Cloning.
- Bowman, J. 2006. Animal Cruelty.
- Bowman, J. 2006. Gay Rights.
- Bowman, J. 2006. The Bubonic Plague.

### Special Skills and Abilities

Computer Skills: Microsoft Word, Excel, PowerPoint, Logger Pro, SDSC Biology Workbench,  
Chromatogram analysis software