

# CWSF 2010 - Peterborough, Ontario



## Anna Gosine

### The Intelligibility of Sopranos' Vowels

**Division:** Physical & Mathematical Sciences

**Category:** Intermediate

**Region:** Eastern Newfoundland

**City:** St. John's, NL

**School:** MacDonald Drive Junior High School

**Abstract:** Why is it difficult to distinguish between different? vowels sung by a soprano high in her range? In this project I used MATLAB and Excel to record and analyze? the range of frequencies of different vowels sung on both A440 (low) and A880 (high) by different sopranos and I examined the separation of the vowels in frequency space. ?

#### Biography

I am a Grade 9 student at MacDonald Drive Junior High School in St John's, Newfoundland. I have been singing in a choir called Shallaway since I was 7 years old. Last year, we toured Cuba and this summer we will be touring China. At school, I sing in both our school choirs. I am co-captain of my school's cheerleading team. During the summer, I enjoy playing soccer and rowing. I have almost completed my Duke of Edinburgh bronze award and plan to continue to work on my silver and gold awards. Having spent a number of years doing competitive synchronized swimming, I now coach in an adaptive synchronized swimming program (for girls with cerebral palsy) and I help to coach a recreational synchronized swimming team for young girls. I volunteer with the Association for New Canadians where I tutor new refugees (in the elementary level) by enhancing their abilities to read, write and speak in English, and last summer I volunteered with their summer children's program. In my spare time, I enjoy doing ballet, as well as playing guitar and piano. In the future, I hope to pursue a career in law, specializing in children's rights and immigration law.

#### Awards

#### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$300
<b>Total</b>	<b>\$1 300</b>