



CWSF 2016 - Montreal, Quebec



Sascha Bodak

Generating Musical Accompaniment Using Machine Learning

Challenge: Information **Category:** Senior

Region: Thames Valley
City: London, ON
School: A.B. Lucas S.S.

Abstract: From image recognition to natural language processing to genetic research,

learning algorithms that are capable of using past information to model patterns have become a major part of modern life whether the average person realizes it or not. In this project, a novel deep learning algorithm that is capable of producing a sophisticated musical accompaniment to a given

melody is presented.

Biography

My name is Sascha Bodak. In the future I hope to become a Software Engineer. My hobbies include reading, programming, and writing music. My love for music and computer science inspired this science fair project. I would urge anyone interested in starting their own project to find a great mentor who can guide you through the important steps required to bring your idea to life.

Awards	Value
Challenge Award - Information - Senior	
Sponsor: Youth Science Canada	
Excellence Award - Senior - Gold Medal	\$250
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$22 250



