

# CWSF 2006 - Saguenay, Québec



## Justin Reardon

### The Hierarchical Clustering System: Finding Similarities in Data Using Hierarchical Clustering

**Division:** Earth & Environmental Sciences

**Category:** Senior

**Region:** Renfrew County

**City:** Petawawa, ON

**School:** Bishop Smith Catholic H.S.

**Abstract:** This project implemented a computer application for grouping multidimensional dataset using hierarchical clustering. Datasets containing many dimensions are difficult to analyze using simple mechanisms, like scatterplots, as we cannot visually interpret the data. Computers, however, are not limited by the number of dimensions they can analyze. This allows them to take multidimensional data and construct useful grouping, which can then be displayed for users.

Awards	Value
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Computing & Information Technology - Senior Sponsor: Intel of Canada, Ltd.	\$300
Total	\$1 300