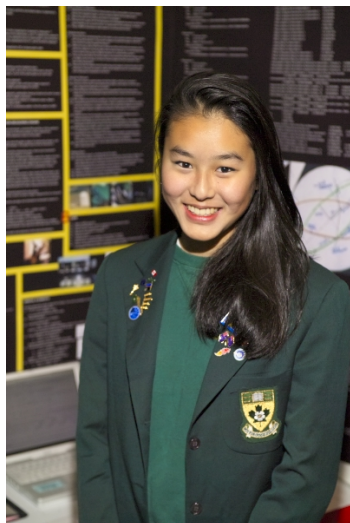


CWSF 2005 - Vancouver, British Columbia



Jennifer Loong

Oh-Dee: Orbit Determination

Division: Engineering & Computing Sciences

Category: Senior

Region: Greater Vancouver

City: Richmond, BC

School: York House School

Abstract: This is a software program that can determine the orbit of any observable asteroid in the solar system, using the Laplacian Method. Only 3 observations are needed prior to writing the program in IDL syntax. The results generated by OD are called orbital elements, which depict the size, shape and orientation of the orbit in detail.

Awards	Value
Award for Excellence in Astronomy - Senior Sponsor: Royal Astronomical Society of Canada	\$200
International Summer School for Young Physicists Award Sponsor: Perimeter Institute for Theoretical Physics	\$2 500
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Engineering - Senior Sponsor: Youth Science Foundation Canada	\$300
Total	\$4 000