

# The List of Winners to 2013 S.-T. Yau High School Mathematics Awards

## Gold Award

Title: 3D Surface Fabrication using Conformal Geometry

Members: Yuanqi Zhang

Instructor: Xianfeng Gu

School: St. Gregory College Preparatory School, USA

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## Silver Awards

(1)Title: The geometrical analysis of the path of free kick

Members: Zuoru Yang, Hongyuan Fu, Runda Ji

Instructor: Fengyi Pan

School: Beijing Zhongguancun High School

(2)Title: A General Algorithm of Flattening Convex Prismatoids

Members: Chenglei Li, Jingqi Zhou

Instructor: Minghuang Chai

School: NUS High School, Singapore

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## Bronze Awards

(1)Title: The solvability of negative Pell equation

Members: Jiaqi Wang, Lide Cai

Instructor: Xiangxue Jia

School: Beijing National Day School

(2)Title:  $q$ -Symmetric Polynomials and nilHecke Algebras

Members: Ritesh Ragavender

Instructor: Alexander Ellis

School: South Brunswick High School, USA

(3)Title: Quantum Watermarking in M-band Wavelet Domain

Members: Tong Liu, Xuan Xu

Instructor: Yulian Ren

School: The High School Attached to Jilin University

(4)Title: Feature Identification for Colon Tumor Classification

Members: Anthony Hou

Instructor: Ernie Esser

School: Arcadia High School, USA

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## Honorable Mention

(1)Title: A New Secure Distributed Storage Scheme for Cloud- Geometric and Algebraic design and Implementation

Members: Haoting Zhang, Zhiwei Tan

Instructor: Canlin Huang

School: Pui Ching Middle School, Macau

(2)Title: Research on some particular simple groups by using elementary methods

Members: Zhiyin Shao, Ziqi Zhao, Ruiheng Xie

Instructor: Min Xu

School: Guangdong Guangya High School

(3)Title: A study on the probability issue of “a frog jumping one meter a time”

Members: Tianbo Qi, Yintai Zhang

Instructor: Jinsong Li

School: The High School Attached to Tsinghua University

(4)Title: Study of Evacuation in High-rise Buildings And Attempt of Evacuation Plan Devisal with Functional Knowledge

Members: Datong Zhou, Yuhan Wang

Instructor: Jun Pan

School: Hangzhou Foreign Language School