PHIL CHEN

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EDUCATION

University High School, Irvine, CA (September, 2014 – present)
GPA: 4.0 unweighted, 4.57 weighted

ACT: 36 Composite, 36 English, 36 Math, 36 Reading, 36 Science
SAT Subject Tests: 800 Math Level 2, 800 Physics, 800 Chemistry, 800 Biology – Molecular
AP Tests: 5 Calculus BC, 5 Physics C, 5 Biology, 5 Chemistry, 5 Statistics, 5 Computer Science

RESEARCH EXPERIENCE

University of California, Irvine
***Research Intern**, Center for Mathematical and Computational Biology* (April, 2015 – present)

- Developed a novel mathematical model of breast cancer cell populations
- Analyzed the model using Bayesian statistics and bifurcation data
- Utilized the model to simulate the effects of different treatments on cancer recurrence

LEADERSHIP

Future Business Leaders of America (FBLA)
***Leadership Associate**, Southern Section* (April, 2016 – present)

- Planned events and conferences attended by over 50 schools and 300 students
- Decided on issues affecting more than 30 FBLA schools

University High School
***Vice President**, Spaceset Club* (September, 2016 – present)

- Led school team to win the International Space Settlement Design Competition

***Resource Manager**, Science Club* (September, 2015 – present)

- Represented school in Science Olympiad and Science Bowl competitions
- Helped to lead practice sessions and gathered pertinent resources

COMMUNITY SERVICE

Jeffrey Trail Middle School
MathCounts and Science Olympiad Head Coach (September, 2014 – present)

- Led team of ten high school students to coach math and Science Olympiad teams
- Helped both teams achieve third-place finish in state

Freelance Musician (September, 2014 – present)

- Raised over $500 for school orchestra program
- Performed in a series of four educational concerts for over 10,000 elementary school children

TECHNICAL SKILLS

Matlab

- Self-learned programming in MATLAB
- Utilized ODE solvers, Statistics Toolbox, and Parallel Computing Toolbox to simulate cell population dynamics
- Employed Matcont (add-on software) for bifurcation analysis of ODE equations

Java

- Proficient with object-oriented programming and algorithms in Java
- Used Java to rank in the Gold division in the USA Computing Olympiad

- Developing Android App for my high school's schedule

Theoretical Math

- Self-learned multivariable calculus, differential equations, and linear algebra
- Familiar with combinatorics and number theory

Latex

HONORS AND AWARDS

Two-time qualifier, USA Math Olympiad (April, 2015 and April, 2016)

- Scored among top 200 students in the nation in the most rigorous American math competition based on multiple choice, short answer, and proof-based questions

1st place in nation, 3rd place in world, Physics Bowl (May, 2016)

- Placed as one of top students in the Physics Bowl, a fast-paced physics exam

Honorable Mention, USA Physics Olympiad (April, 2016)

- Scored among top 150 students in the nation in the most rigorous American physics competition based on multiple choice and proof-based questions

1st place, Orange County American Chemistry Society First Year Exam (April, 2016)

- Earned highest score in regional chemistry competition

Gold division, USA Computing Olympiad (December, 2015)

- Placed among top students in the largest American computer science competition