

# Tei D. Kim

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## Academics

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Stanford Online High School, *Redwood City, CA* Aug 2019 – Jun 2025  
GPA: 4.00 UW  
AP/post-AP/UL Courses: AP Calculus AB(5 exam only) and BC(TBD), AP Chemistry(5), AP Statistics(5), AP Physics 1(5 exam only), AP Biology(TBD)

ACT, 36 (*Math: 36, Science: 36, English: 35, Reading: 36*) Sep 2022

## Research Experience

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Research Intern at Comprehensive Laboratory for Untargeted Exposome Science (CLUES), Emory University Oct 2022 – present  
Research Intern at Institute for Exposomic Research Labs, Icahn School of Medicine at Mount Sinai May 2022 – Sep 2022  
*Developing an Automated Protocol for the Wristband Extraction Process Using Opentrons*  
Supervised by Dr. Douglas Walker, Brooklynn McNeil, and Kathryn Dunn  
Implemented sequence and transfer methods to aliquot plasma samples into C18 and HILIC plates  
Developed a protocol that makes wristband extraction process more efficient and limits human error

Research at Stanford Online High School Apr 2021 – Sep 2022  
*Practice Makes Perfect: New Empirical Data and Statistical Analysis to Test Preconceived Notions*  
Investigated correlations between test runs and motor skills/cognitive abilities based on biological and social variables of participants  
Utilized Numpy/Scipy to run statistical inferences on subitization data  
Developed a program to automatically log participant responses

## Honors & Awards

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AMC 10B, 108/150, *Distinction* Nov 2022  
AMC 10A, 132/150, *Distinguished Honor Roll* Nov 2022  
AIME I, 4/15 Mar 2022  
AMC 10B, 112.5/150, *Distinction* Nov 2021  
AMC 10A, 127.5/150, *Distinguished Honor Roll, Top 0.25%* Nov 2021  
AIME I, *qualified* Mar 2021  
AMC 10B, 106.5/150 Feb 2021  
AMC 10A, 123/150, *Distinction* Feb 2021  
AMC 8, 23/25, *Distinguished Honor Roll, Top 0.25%* Nov 2020

KSEA National Math Competition, *National 2<sup>nd</sup> Place, Regional 1<sup>st</sup> Place* Apr 2022  
KSEA National High School Physics Competition by Texas Coastal Bend Chapter, *1<sup>st</sup> Place* Apr 2022  
KSEA National Math Competition by New Jersey Chapter, *1<sup>st</sup> Place* Dec 2020

USA Computing Olympiad, *Gold Division* Dec 2022  
American Computer Science League Finals – Intermediate Division, *Bronze Medal* May 2022  
American Computer Science League Finals – Junior Division, *Silver Medal* May 2021  
USA Computing Olympiad, *Silver Division* Jan 2021  
CS@Mines High School Programming Competition, *2<sup>nd</sup> Place* Feb 2021

USA Biology Olympiad, *Semi-finalist* Feb 2023  
USA National Chemistry Olympiad, *Finalist* Mar 2022

Scholastic Art & Writing – Critical Essay, “*Why Isn’t the United States Acting on Gun Violence?*”, *Gold Key* Jan 2023  
Scholastic Art & Writing – Poetry, “*The Wild Within*”, *Honorable Mention* Jan 2023  
Scholastic Art & Writing – Poetry, “*River to the House of Cards*”, *Honorable Mention* Jan 2022  
Scholastic Art & Writing – Critical Essay, “*Trump’s Misinformation and its similarities to Stalin*”, *Honorable Mention* Jan 2021

National Classical Etymology Exam, *Gold Medal in Intermediate Level* Jan 2023  
National Latin Exam Beginning Latin Exam, *Summa Cum Laude* Apr 2022

President’s Volunteer Service Award, *Gold* 2021/2022  
USA Fencing, *All-Academic First Team* 2022

## Extracurriculars & Community Service

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Stanford OHS Aug 2019 – Jun 2025

Teacher's Assistant: *AP Chemistry*

Peer Tutor: *Honors Precalculus with Trigonometry, Honors Intermediate Algebra, Honors Beginning Algebra, Honors Pre-Algebra, Honors Physics, Textual Analysis with Argumentation, AP Statistics, AP Chemistry, Methodology of Science and Biology*

Math Competition Club

Neuroscience Club

Competitive Programming Circle

Chemistry Olympiad Club

Biology Olympiad Club

Leadership and Activism Club

Lend a Hand Tutor A NJ Nonprofit Corporation, *Co-Founder*

Jun 2020 – present

Competitive Fencing, *B-rated in Epee & Foil, Best National Ranking (59th in CDTME, 52nd in CDTMF)*

Feb 2015 – present

## **Publications**

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Kim, T., "Practice Makes Perfect: New Empirical Data and Statistical Analysis to Test Preconceived Notions," 1<sup>st</sup> Australian International Conference on Industrial Engineering and Operations Management, Sydney, Australia, 20-21 December 2022.

Kim, T., "Developing an Automated Protocol for the Wristband Extraction Process Using OpenTrons," 45th Dubai International conference on "Futuristic Trends in Science, Engineering & Technology", 21-23 November 2022.

Kim, T., "Portraits of Failed Leadership: Rhee Syngman and Mohammad Ashraf Ghani," HistoryHub, 14 November 2022, <https://historyhub.info/portraits-of-failed-leadership/>.

Kim, T., "Like Syngman Rhee, Like Ashraf Ghani: Portraits of Failed Leadership," HistoryVille, 3 June 2022, <https://www.thehistoryville.com/syngman-rhee-ashraf-ghani/>.

Kim, T., "Winning is 90% Mental," Teen Ink, 13 July 2021, [https://www.teenink.com/nonfiction/personal\\_experience/article/1135358/Winning-Is-90-Mental](https://www.teenink.com/nonfiction/personal_experience/article/1135358/Winning-Is-90-Mental).

## **Miscellaneous**

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Technical Proficiencies

Java, Python

Languages

English, Korean

Sports

Fencing, Tennis, Boxing, Indoor Climbing