

JOSH SANYAL

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HOMESTEAD HIGH SCHOOL

Cumulative Unweighted GPA 4.0/4.0

Cupertino, CA

Graduation Year: 2021

STRENGTHS & SKILLS

- Research – Bioinformatics Intern at Stanford's Rubin Lab (2018-2021), Published First-Author
- Programming – Java, C++, Python, Web Development, MATLAB, USACO Gold, Machine Learning (PyTorch, Tensorflow, etc.), Natural Language Processing (Gensim, NLTK, etc.)
- Math – 5-time AIME Qualifier, Multivariable Calculus, Linear Algebra

RESEARCH PUBLICATIONS

- “Weakly Supervised Temporal Model for Prediction of Breast Cancer Distant Recurrence,” (1st Author Paper published in Nature's Scientific Reports)
- “An Automated Two-step Pipeline for Aggressive Prostate Lesion Detection from Multi-parametric MR Sequence,” (1st Author Paper published by the American Medical Informatics Association)
- “Natural Language Processing of Head CT Reports to Identify Intracranial Mass Effect: CTIME Algorithm” (Co-author of paper under review at Academic Emergency Medicine)
- “Registration Boost Performance of Aggressive Prostate Cancer Diagnosis”, (1st Author Abstract published by the American Medical Informatics Association)

ACCOMPLISHMENTS

- Math & Computing
 - 5-time AIME qualifier (highest score 9), 2017-2021
 - National Finalist @ USMCA National Championship, 2019
 - USACO Gold Division Contestant, 2019-present
 - 2nd Power Test, 7th Overall Team @ Stanford Math Tournament, 2020
 - 3rd Power Round, 6th Overall Team @ Berkeley Math Tournament, 2019
 - 8th in Calculus (Individual), 9th Overall Team @ Stanford Math Tournament, 2019
 - 2nd Speed Round Novice, Stanford ProCo, 2018
- Research
 - Regeneron ISEF (International Science and Engineering Fair) Finalist, 2020
 - 3rd Place in Mathematics and Computer Science @ National JSHS, 2021
 - Grand Prize - Best of Championship, 1st Place RRI Physical Science and Engineering, California State Fair Qualifier @ Synopsys Championship, 2020
 - National Finalist, 5th place in Northern CA @ Junior Science & Humanities Symposium, 2019
 - Morgan Lewis Award & Honorable Mention, RRI Biological Science and Engineering @ Synopsys Championship, 2019
 - Regional Finalist @ BioGENEius Global Healthcare Challenge, 2018
- Debate
 - 2nd place LD Varsity & 8th Speaker @ SCU Spring Philalethic Invitational, 2019
 - Undefeated LD Varsity @ CFL Super Debate Milpitas, 2019
 - Octofinalist LD Varsity @ SCU Spring Philalethic Invitational, 2018

ACTIVITIES & INTERESTS

- Homestead High School Clubs + Leadership Experience
 - Programming Club – Co-President (12th), Vice President (11th), Competitions Director (10th)
 - Math Club – President (12th), Activities Director (10-11th)
 - Speech & Debate Club – Vice President (11-12th), Debate Captain (10-12th)
 - HomesteadHacks (middle school hackathon) – Lead Director (11-12th)
- President's Volunteer Service Award – Gold in 2018, 2019, 2020
 - Homestead High School Academic Center Tutor (9-12th)
 - Speech & Debate Coach at Cupertino Middle School (9-12th)