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15 - 16

ERIC C. CHEN 135 Prospect St. New Haven, CT 06511

EDUCATION

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Yale University, New Haven, CT

8/15 - present

Undergraduates Seeking Internships

- Pursuing B.S. in Biomedical Engineering, to be conferred by May 2019
- GPA: 3.94/4.00
- Major Courses: Linear Algebra and Matrix Theory, Organic Chemistry, Cancer Biology, Spanish for Medical Professions, Introductory Biology, Physics with lab, Physiological Systems, Psychology, Media and Medicine in Modern America

EXPERIENCE

Student Researcher: Yale Department of Laboratory Medicine, Dr. Tore Eid Laboratory, New Haven, CT		
 Currently studying the effect of gut microbiota on seizure intensity and frequency in Temporal Lobe Epilepsy (TLE) 	Yale	
Established model of TLE via Intra-Hippocampal Kainic Acid Infusion	Taic	
 Studied the effect of deep-brain stimulation in rat models of TLE 		
Software Engineering Intern: Wolfram Research Inc. Champaign, IL		
 Software engineer for data analysis and visualization 	_6A0L	
 Developed time-series data reduction algorithm for an efficient, high resolution alternative to the Round-Robin Database Tool 	WOLFRAM	
 Analyzed query data for internal and client usage dashboards 	WOLFRAM	
 Programmed in Mathematica, Perl, Python, and SQL 		
Research Intern: Biotechnology Lab in Embrapa Soja, Londrina, Brazil		
 One of 23 nationally-selected Borlaug-Ruan International Interns from the World Food Prize 		
 Studied soybean cultivar resistance to Phytophthora Sojae using Marker Assisted Selection of Single Nucleotide Polymorphisms 	THE WORLD	
 Completed research paper and delivered oral presentation of research results to the World Food Prize 	FOOD PRIZE	
Research Intern: San Diego Supercomputer Center, San Diego, CA		
 Conducted computational biology research through the competitive Research Experience for High School Students program 	SDSC	

Identified association between immune epitope location and intrinsic protein disorderness Learned to program in SQL and Python to analyze the Immune Epitope Database

HONORS / AWARDS

•	Yale College Global Health Scholar	16 - Present
•	Stacey Leondis Saybrook '08 Summer Research Grant	16
•	Yale College Freshman Summer Research Fellowship	16
•	Semifinalist, Siemens Competition in Math, Science & Technology	14
•	Finalist, National Chemistry Olympiad	13
•	Semifinalist, USA Biology Olympiad	14
•	California delegate to the World Food Prize Global Youth Institute	13
•	Co-chair of student advisory board for San Diego Science Fair	14 - 15
•	Southern California BioGENEius Award at California State Science Fair	14
•	American Invitational Mathematics Examination qualifier	14
•	National Merit Scholar, National AP Scholar	14
	CATHAMAL 12 (000) CATH CL : (000)	10

American Invitational Mathematics Examination qualifier	14
National Merit Scholar, National AP Scholar	14
• SAT II Math Level 2 (800), SAT II Chemistry (800)	12
RESEARCH	
Computational Biology Research: "Novel B-cell Epitope Prediction from Intrinsically Unstructured Protein Region Positioning"	2/14
 1st Place in Greater San Diego Science and Engineering Fair (GSDSEF) and 4th place in California State Science Fair 	
 Five professional society awards from Southern California Biomedical Council, Kaiser-Permanente, San Diego Supercomputer Center, Ameri Statistical Association, and JOURNYS 	can
 Project inspired from internship at San Diego Supercomputer Center, completed in collaboration with teammate at another high school 	
Healthcare Policy Research: "An Analysis of Sterile Injectable Oncology Drug Shortages in the California Medicaid Program"	
 Presented at the interactive poster session at INFORMS Healthcare Analytics Conference, June 23-26, 2013, Chicago, IL 	6/13
Manuscript submitted to Medical Care Research and Review	10/16
LEADERSHIP AND EXTRACURRICULARS	
Healthcare Director of BulldogHacks, Yale's premier healthcare hackathon	16
Member of Yale Roosevelt Institute's Public Health Center	16
 Volunteer at HAVEN Free Clinic, patient referrals (with Spanish language fluency) 	16
President/Business Manager of Living Water at Yale a cappella	16

SKILLS

Fluent in Spanish and Mandarin

Director of Sponsor Relations for the Yale Math Competition

Matlab, Java, Python, SQL, SPSS, R, Mathematica Certification - Wolfram Technology Associate at Student Level

Member of Design for America's team to promote science and technology education in New Haven

Laboratory techniques: mouse coordinate brain surgery (depth and screw electrode, infusion cannula), micro-infusion, perfusion, intraperitoneal injection, tissue and blood collection, mass spectrometry, brain sectioning and staining, EEG recording and analysis, deepbrain stimulation, genotyping, DNA extraction, PCR, sequence analysis, recombination.