

Alumni Newsletter Spring 2014

COSMOS Alumni:	
This is your news-	
letter, so let us	
know what you	
want to see! Send	
us your updates,	
your accomplish-	
ments, your pho-	
tos, anything you'd	1
like to share with	
your fellow alumni	
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Important Upcoming Dates

COSMOS 2014 Summer Program UCSD, UCD, UCSC—July 7-August 2 UCI—June 29-July 25

COSMOLYMPICS

Acceptance notifications for the UCSD COSMOS 2014 program were sent to anxious applicantos April 18th. 613 applications were completed for 184 student oppnings at UCSD. More than half of the accepted students in 11th grade, overwhelmingly from California (one out-of-state and two international students accepted), slightly more female students and about one-third are receiving financial assistance. Threast requested first choice clusters remain Clusters 1 (Computers in Everyday Life), 2 (Engineering Design and Coolt of Kinetic Sculptures), 7 (Bioengineering/Mechnical Engineering he Amazing Red Blood Cell) and 8 (Tissue Engineeriagd Regenerative Medicine). New for this year is Cluster 9: Music and Technology with Dr. Mauricio de Oliveira as lead faculty and Dr. Shlomo Dubnov as cluster faculty. Dr. de Oliveira continues as lead faculty for Cluster 7 in addition to Cluster 9. Dr. Robert "Skip" Pomeroy will be lead faculty for Clusters 3 (Living Oceans and Global Climate Change) and 6 (Biodiesel from Renewable Stores). COSMOS Director and ECE professor Dr. Charles Tu will be lead faculty for Cluster 5 (From Lasers to LCD's: Light at Work).

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Jack Takahashi, COSMOS 2011, Intel STS 2013 Finalist

Currently attending: Stanford University; Expected Graduation: 2017 Major: Undecided COSMOS Year: 2011; Cluster 8: The Molecular Biology Revolution

What kind of research are you currently involved in, and/or what extracutive unit of the search are you currently involved in, and/or what extracutive units and the search are you currently involved in, and/or what extracutive units and the search are you currently involved in, and/or what extracutive units and the search are you currently involved in, and/or what extracutive units and the search are you currently involved in, and/or what extracutive units and the search are you currently involved in, and/or what extracutive units and the search are you currently involved in the search are you currently involved in, and/or what extracutive units and the search are you currently involved in the search are you currently involv lar activities and organizations do you participate in?

I'm currently working in the de Jesus Perez lab in the Pulmonary and Critical Care department of the School of Medicine. My research is on PDGF-related beta cateactivation in idiopathic pulmonary arterial hypertension (IPAH). On the side, I'm learning ballroom dance and writing for the Stanfordipside, a satirical newspaper.

MOS? How did you do?

Intel STS 2013 Finalist; I-SWEEEP 2012 Gold Medal; Synopsys Champinor Worley. Following are his impressions: onship 2012, 1st Place Microbiology

How did COSMOS help preparefore your undergraduate journey? My COSMOS cluster gave me a solid foundation in molecular biology with my FIRST robotics team the Holy Cows. Along with that allowed me to work with adamced techniques like qRT-PCR and western blots comfortably. This grame a leg up when I started re-search in high school and continuteshell and continuteshell and continueshell and continueshells and con Stanford. At the same time, COSMOSroduced me to dorm life, so college wasn't a shock for me.

What are your future aspirations?

I plan on earning an MD or MD PhD. I'm not sure whether I want to work clinically or as physician researcher, but I'm confident I want to be in the medical field.

Do you have any advice for your fell SMOS alumni who are still in high school?

Don't stress about where you end upping to college. What you do in college matters more han where you go.

Because of my participation in COSSMam encouraged/inspired to.... explore the sciences an inch wided a mile deep. COSMOS was great because it allowed me to learn at a high-level while my high school courses were still teaching the basics.

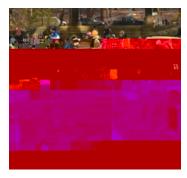
Connor Worley, COSMOS 2013, Macy's Thanksgiving Day Parade-**FIRST** Robotics

The Macy's Thanksgiving Day Parade[®] is the beginning of the American holiday season. More than 3.5 million people in New York and 50 million people around the country watch

before seen in the parade – ROBOTS! Five award-winning FIRST Robo cs Compe on (FRC) teams opened the 87th annual event on November 28, 2013 in New York City, cu ng the ribbon to signal the o cial start of the parade. The teams spent many hours retro-fing their compe on robot from shoo ng discs to shoo ng confe, and opera ng

Did you participate in any science design competitions or fairs after COS-the scissors to cut the ribbon. One of the par cipa ng teams, The Holy Cows from San Diego, included COSMOS alum Con-

This Thanksgiving break, I het blead the Macy's Day parade four other teams we were selected to cut the ribbon and shoot confetti, then drive two and a half mile-long parade ed I was thrilled, but the team quickl Neizd Ih tw-7.1(e)-..3(tw-7.1(o)





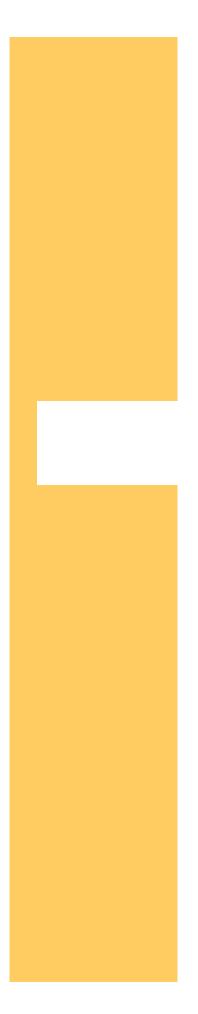
Spring 2014

COSMOS 2014 Intel Scholars presented rate Affairs and Sponsor their projects to representatives from the of US Girls and Women Intel Corporation on Thursday, March 20, Programs At Intel, and 2014 at an event in the Qualcomm Room aWilberth Escalante-Jacobs Hall. One student from each clusterTamayo and Daniel was chosen as an Intel Scholar during the Ugarte, from the local summer COSMOS program, and all recipi- Intel Office. Each Intel ents had to reside in San Diego County. Scholar presented both Students were paired with a UCSD engi- an oral presentation and neering student mentor, through the Jacobsposter board of their School of Engineering IDEA CenteSchol- project and exhibited ars and mentors mein advance of the confidence and presentation to polish their project posters knowledge to the audiand presentation skillScholars and mentorsence. The Intel Scholars both proclaimed that the experience was are: Cluster 1: Khelsey Gozum; Cluster 2: more beneficial and rewarding than they Cristabel Otero; Cluster 3: Joey Uy; Cluster thought it would be and definitely worth the 4: Diego Espinoza; Cluster 5: Marcella time spent. The Intel representatives attendMarquez; Cluster 6: Angela Chen; Cluster 7: ing were Grace Davis, Director of Corpo- Brandon Nguyen; Cluster 8: Laura Leon.

By: Alex Rodriguez, COSMOS 2010

Sophomore Year

It was my sophomore year of college and like many Computer Science students, I was looking for a summer internship. I first heard about the



Rajesh Gupta, UCSD CSE Chair, Former Faculty COSMOS Cluster 1 an d COSMOS Supporter

In the movie "Her", the name operating system, "Samantha", is so powerful it can carry on conversations that seem to tap into everything Theodore sees, th

Keep in touch! Look for our next issue in Fall 2014! UCSD COSMOS is on Facebook! Link up with us at: