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SDSC Interns "Show Their Stuff" at Poster Session

Students Display Summer Research Projects at August 24 Event

UNIVERSITY OF CALIFORNIA, SAN DIEGO — Colleen Shannon and Tuan Le were two of the 39 students who displayed posters at the annual SDSC Student Intern Poster Session on August 24 in the SDSC auditorium. Both Shannon and Le have been working with the Cooperative Association for Internet Data Analysis (CAIDA) group at SDSC for the summer. While Shannon's research encompassed analysis of fragmented packet traffic on Internet links, Le worked on CAIDA's Internet Engineering Curriculum (IEC).

"I learned about network research, and specifically studied data that ties the Internet together," said Shannon, a UC San Diego senior majoring in computer science and biology. "The internship helped me gain a better understanding of how packets flow across the networks."

Le, who is studying computer engineering at San Diego State University, said that he also learned a great deal over the summer. Focusing on Web development, Le assisted the CAIDA team with perl scripts that index course information on the IEC, a Web site that provides educators with information regarding development in the Internet engineering field.

Tuan Le and Colleen Shannon, CAIDA student interns, display their research projects.

Kris Stewart (far left) and Jeff Sale mentored several SDSC interns this summer at the SDSU Ed Center.

SDSC intern Matt Clothier researched interactive 3-D using motion trackers this summer.

"We were happy to have Colleen and Tuan work with us this summer," said K.C. Claffy, CAIDA principal investigator. "Students always help Internet researchers like us because since they're more in touch with the newest applications, like gaming and streaming media, than we are."

Matt Clothier, Dru Clark, Cyrus Jam, Dan Lander, Emily Ong, and John Rapp displayed a variety of visualization work at the poster session. The six students, who were working with SDSC visualization scientist Mike Bailey this summer, demonstrated everything from haptic visualization systems to rapid prototyping visualization utilities at the poster session.

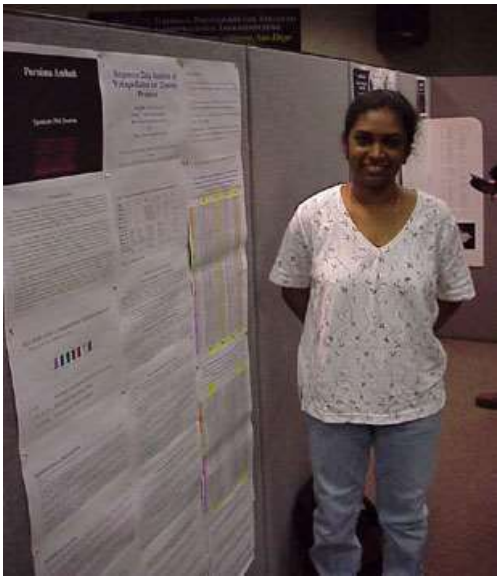
Clothier worked on interactive 3-D using motion trackers this summer, and gave demonstrations of his research in the design visualization laboratory during the poster session. "By overlaying 3-D images on top of real-world scenarios, motion trackers allow us to see what's on the other side of the closed door without actually opening the door," said Clothier, a UC San Diego computer science student. "My summer research allowed me to explore a variety of visualization techniques, but I particularly liked the work that I did with the 3-D visualizations and motion tracking."

Also participating in the poster session was Sharokina Shahbaz, a participant in the UC Leadership Excellence through Advanced Degrees (UC LEADS). Shahbaz displayed her work regarding computational chemistry, and specifically discussed molecular shape characterization. She was mentored this summer by Lynn Ten Eyck, SDSC associate director of computational science research, and Julie Mitchell, a postdoctoral researcher with the La Jolla Interfaces in Science program.

Additional interns who displayed their summer work included Apryl Bailey, Anne Bowen, and Zack Schumann. All three students have been working on the "Envision, Explore, Engage" project for the past few months. Led

by SDSC researcher Rozeanne Steckler, the educational outreach project concentrates on making science accessible with multimedia and graphics, featuring a CD-ROM aimed at junior high school students. "Our goal with this project is to educate future generations," said Schumann, a multimedia student at Mesa College. "It's very rewarding to be able to work on this, as I feel like we are going to reach a lot of kids with the CD-ROM and give them a better understanding of science."

Apryl Bailey, Anne Bowen, and Zack Schumann displayed their work on the "Envision, Explore, Engage" project.



Purnima Ambati's research project involved sequence data analysis of voltage-gated ion channel proteins. Ambati was mentored by SDSC's Phil Bourne.

Thirty-nine student interns participated in the SDSC Student Intern Poster Session.

For additional event photos regarding the poster session, visit http://www.sdsc.edu/~mjb/poster2000/. —*KMB*