

pH Reading from the President

Dear ARCS Foundation - Orange County Chapter members and friends,

Please join me in congratulating our fifteen 2016-17 ARCS scholars, from the UCI Schools of Biological Sciences, Engineering, Information and Computer Sciences, Medicine and Physical Sciences. ARCS Scholar Awards recognize and reward UC Irvine's most academically superior doctoral students exhibiting outstanding promise as scientists, researchers and leaders. You can find information about the ARCS scholars on the [UCI Graduate Division web page](#).

Throughout the year, we feature ARCS scholars from UCI in the newsletter and on the Chapter website. In this newsletter we are featuring two ARCS scholars: current scholar Dominique Ingato, studying in the Henry Samueli School of Engineering and Scholar Alumnus, Kyle Benson, a doctoral candidate in the Donald Bren School of Information and Computer Sciences. With support from the ARCS Orange County Chapter, these young scientists have been able to travel to conferences, present their research work and network with scientists from around the globe.

We hope to see many of our members and friends of the ARCS at the OC Chapter's annual Beckman Family Science Lecture and Dinner at the UCI University Club on November 7, 2016. Dr. Howard Federoff, Vice Chancellor for Health Affairs and CEO of the UCI Health System, will be talking about "Predicting Who Will Get Alzheimers".

I would like to Welcome Ms. Wendy Solovay as newest ARCS Foundation Orange County Chapter member. We always look forward to welcoming new members to the ARCS Orange County Chapter and invite you to share our story with colleagues and friends. In close collaboration with the University of California, Irvine, the ARCS OC Chapter recognizes future leaders in science and engineering fields.

To learn more about ARCS Orange County Chapter, sponsor a scholar, donate, or become a member, please visit the [ARCS Orange County web page](#). Follow us on [Facebook](#) and [Twitter](#).

I wish you an enjoyable fall season

Chandra Jain, President

ARCS Foundation New Website

The ARCS Foundation and the sixteen Chapters are pleased to announce a new and updated website. The Website features articles from the ARCS Foundation and news specific to each of the chapters. [Check us out!](#)

You can now register for events and support the ARCS Orange County chapter through direct, online donations and payments. Visit the ARCS Orange County Chapter page and click on then the donate button. One hundred percent of all money solicited/raised for scholar awards and earned interest go directly to the scholars.

We also have new [Facebook](#) and [Twitter](#) accounts. Follow us for the latest news!

**2016 Beckman Family Lecture and Dinner**

November 7, 2016 at the University Club on the UCI campus

Dr. Howard Federoff, Vice Chancellor, Health Affairs and CEO of the UCI Health System will be talking about "Predicting Who Will Get Alzheimer's". Watch for the invitation. ARCS members and friends are invited to attend. For more information, visit our web site or contact our event coordinator, Barbara Hamkalo, bahamkal@uci.edu.

**ARCS Scholars in the News**

Two first year scholars were featured in the [Ayala School of Biological Science's newsletter](#). Christine Schneider and Alyssa Rita Braciszewski. Christine is a doctoral student in the Department of Molecular Biology and Biochemistry investigating how the parasite *Toxoplasma gondii* evades the brain's immune response. Alyssa is a doctoral student in the Department of Ecology and Evolutionary Biology investigating abalone populations and the mechanisms that confer resilience against withering syndrome, a disease that wiped out large numbers of abalone over two decades ago.

To learn more about ARCS Orange County Chapter, sponsor a scholar, donate, or become a member, visit us on the web, https://www.arcsfoundation.org/orange_county/

Follow ARCS Foundation Orange County Chapter on Facebook and Twitter

**Featured News & Events**

Beckman Family Lecture and Dinner
- Nov 7, 2016

Scholar Luncheon- Jan 19, 2017

ARCS OC Chapter 2016-17 Scholars

ARCS Scholars in the news

ARCS Foundation new website

OC Chapter Membership

Featured ARCS Scholar

Dominique Ingato, UCI School of
Engineering

ARCS OC Chapter Board Members

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ARCS Foundation Orange County Chapter Scholars 2016-2017**First year ARCS Scholars:**

Alyssa Braciszewski, Ecology & Evolutionary Biology (Biological Sciences)
Christine Schneider, Molecular Biology & Biochemistry (Biological Sciences)
Anastasia Shuba, Electrical Engineering & Computer Science (Engineering)
Kathryn Ringland, Informatics (Information & Computer Sciences)
Nabila Haque, Microbiology & Molecular Genetics (Medicine)
Patrick Salvesson, Chemistry (Physical Sciences)
Christopher Thompson Wood, Earth System Science (Physical Sciences)

Second year ARCS Scholars:

Lisa (Soyeon) Baik, Physiology & Biophysics (Medicine)
Timothy Carleton, Physics & Astronomy (Physical Sciences)
Dominique Ingato, Chemical Engineering (Engineering)
Allison Najafi, Neurobiology & Behavior (Biological Sciences)
Christine Wolf, Informatics (Information & Computer Sciences)

Roche/ARCS Scholars (now in their third and final year):

Zachariah Reagh, Neurobiology & Behavior (Biological Sciences)
Caitlin Regan, Biomedical Engineering (Engineering)
Elyse VanSpyk, Biological Chemistry (Medicine)

ARCS Scholar Alums, We'd Like to Hear from You!

You are a vital part of our mission. Your stories encourage current scholars and help us attract new funding for future scholars. Stay involved with ARCS Foundation members and other scholars if you live in Orange County or want to give back in any way, including speaking about your research at an ARCS Foundation event. Let us know how you would like to participate in carrying ARCS Foundation work into the future.

To notify the Orange County Chapter that you are in the area, please email us at orangecounty@arcsfoundation.org.

ARCS OC Chapter Membership

We look forward to welcoming new members to the ARCS Orange County Chapter and invite you to consider becoming a member and supporting future STEM leaders through ARCS scholar support. ARCS Foundation advances science and technology in the United States by providing financial awards to academically outstanding U.S. citizens studying to complete degrees in science, engineering and medical research.

ARCS Orange County Chapter was incorporated in 1999. Our Chapter has 43 members. Since funding its first five scholar awards in the academic year of 2000-2001, the Orange County Chapter has provided 247 scholar awards totaling approx. \$ 2.4 million at the University of California, Irvine.

Member Benefits

- Be a catalyst to the scientific, technological, medical and economic development of Orange County.
- Make a difference in the life of an outstanding American student.
- Attend lectures and social events that include behind-the-scenes visits to sites of cutting-edge scientific and technological research.
- Participate in scientific field trips to venues not generally open to the public.
- Meet and mingle with ARCS Foundation scholars, scientists and university faculty.
- Develop friendships with other women leaders in Southern California.

To learn more about ARCS Foundation Orange County Chapter and become a member, please visit our [ARCS Foundation Orange County web page.](#)

Featured ARCS OC Chapter Scholar - Dominique Ingato, ARCS Scholar 2015-17

Dominique Ingato is a Ph.D. candidate in the BioTherapeutics Engineering Laboratory (BioTEL) at UC Irvine in the Henry Samueli School of Engineering. She completed her B.S.E. at the University of Pennsylvania in 2012, graduating with a double major in chemical engineering and chemistry and minor in nanotechnology. In 2014, Dominique completed her M.S. degree at UC Irvine, and she expects to earn her Ph.D. in 2017. Her primary research focuses on the development of cell-derived nano-carriers for biocompatible, targeted cancer therapy.



Blood cancers account for nearly 10% of all diagnosed cancers in the United States. To combat this, Dominique has been working on the development of nano-particles derived from cells that have the ability to target blood cancers. Since receiving the ARCS award, she has published two papers: an ACS Nano (American Chemical Society publication) article describing a novel nanoparticle system for leukemia suppression and a Journal of Controlled Release review on extracellular vesicles for therapeutic delivery. As a result of her outstanding research, she has received multiple fellowships in addition to the ARCS award, such as the National Science Foundation (NSF) Graduate Research Fellowship and the winner of this year's [Fletcher Jones Fellowship from UC Irvine's Graduate Division](#).

Generous ARCS support has enabled Dominique to present her work at prestigious conferences and meetings, including the March 2016 Korea University & UC Irvine Symposium on Bioengineering held in Seoul. At the symposium, Dominique won first prize for her oral presentation on Doxorubicin-loaded extracellular nano-vesicles for cancer therapy.

In addition to her commitment to research, Dominique is highly committed to outreach. In Summer 2016, she was the Pedagogical Coach for the UC Irvine ROCCT (Research Opportunities For Community College Teachers) program, which aims to help community college teachers get their students more interested and involved in STEM-related research. She also serves as the UC Irvine DECADE (Diverse Educational Community and Doctoral Experience) Education Chair and works towards promoting inclusive learning strategies for improving STEM courses.

ARCS Orange County Chapter Board of Directors 2016-2017

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