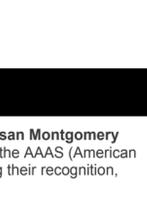




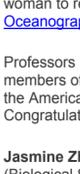
# USC WOMEN IN SCIENCE AND ENGINEERING

## Announcements

As the Fall semester comes to a close, we at WiSE wish you well during finals and hope you have a wonderful and relaxing Holiday season and New Year. We look forward to seeing you in 2013.



Sincerely,  
Leana Golubchik and Sarah Fried-Gintis



"Like" Us! on Facebook  
<http://www.facebook.com/USCWISE>

## Congratulations

Professors **Anna Krylov** (Chemistry), **Susan Friedlander** (Mathematics), **Susan Montgomery** (Mathematics), and **Hanna Reisler** (Chemistry) have been elected fellows of the AAAS (American Association for the Advancement of Science). For the USC article announcing their recognition, [Click here](#). Congratulations, Anna, Susan, Susan, and Hanna!

Professor **Katrina Edwards** (Biological sciences, Earth Sciences and Environmental Studies) has been awarded the 2012 A.G. Huntsman Award for Excellence in Marine Science. She is the third woman to receive this award in the foundation's 32-year history. Read about her recognition in, [Oceanographer Makes Waves](#). Congratulations, Katrina!

Professors **Susan Friedlander** and **Susan Montgomery** (Mathematics), along with 5 other members of the USC Department of Mathematics, have been invited to become inaugural fellows of the American Mathematical Society (AMS). For the article in USC News, [Click here](#). Congratulations, Susan and Susan!

**Jasmine Zhou** (Biological Sciences, Molecular and Computational Biology) and **Emily Liman** (Biological Sciences, Neurobiology) have been promoted to Full Professor. Congratulations, Jasmine and Emily!

**Najwa Hanel** has been promoted to full "University Librarian," a parallel to being promoted to a "full professor." Congratulations, Najwa!

Professor **Malancha Gupta** (Chemical Engineering and Materials Science) was chosen to participate in this year's NAE Frontiers of Engineering Education (FOEE) symposium held October 14 - 17, 2012 at the National Academies Beckman Center in Irvine, CA. To read the announcement, [Click Here](#).

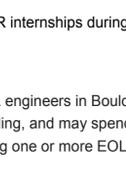
Congratulations to Assistant Professor **Jessica Parr** (Chemistry), who welcomed the birth of her son Ian Henry Chase on December 5, 2012.

## Upcoming WiSE Deadlines

**WISE SUPPORT FOR FACILITATING DIVERSITY IN FACULTY SEARCHES**  
**JANUARY 15**

The WiSE Program provides competitively awarded support to WiSE-eligible departments at USC that propose and implement creative ideas for "casting the net widely," thus increasing the representation of women in science and engineering faculty searches. Activities for which funding may be requested are expected to vary from department to department, as effective approaches would depend on individual disciplines. Proposals should include a brief description of the departmental plan to increase diversity in faculty hiring and a strong justification of why and how receipt of funds will serve to cast the net widely to increase the representation of women in science and engineering faculty searches. Departments may submit no more than one application per academic year.

## Opportunities of Interest



### THE L'ORÉAL USA FELLOWSHIPS FOR WOMEN IN SCIENCE

is a national program that annually recognizes five U.S.-based women postdoctoral researchers who are pursuing careers in the life and physical/material sciences, as well as mathematics, engineering and computer science. Recipients receive up to \$60,000 each that they must apply towards their postdoctoral research.

Now entering its ninth cycle, this national program annually recognizes and provides support to five women postdoctoral researchers in the U.S. who are pursuing careers in the life and physical/material sciences, as well as mathematics, engineering and computer science.

Since its inception in 2003, the L'Oréal USA Fellowships For Women In Science program has awarded 45 fellowships to women scientists across the U.S. Each year, the program attracts a number of talented applicants from diverse scientific fields, representing some of the nation's leading academic institutions and laboratories. The Award selection process includes a two stage review process, including a first round review by an interdisciplinary panel of scientists and engineers and a distinguished jury of eminent scientists and engineers reviews the top applications and selects the L'Oréal USA Fellowships For Women In Science recipients.

The recipients of the L'Oréal USA Fellowships For Women in Science program participate in a week of events that include an awards ceremony, professional development workshops, media training and networking opportunities. In 2012, these workshops, which are facilitated by the program's partner, American Association for the Advancement of Science (AAAS), will encompass job search techniques, interviewing skills, budget development for grant requests, and strategies for submissions to peer-reviewed publication.

The U.S. component of the L'ORÉAL-UNESCO For Women In Science International Fellowship program, the U.S. Fellowships aim to:

Raise awareness of the contribution of women to the sciences; Identify exceptional female researchers in the U.S. to serve as role models for younger generations.

**APPLICATIONS DUE: DECEMBER 20**



The Earth Observing Laboratory of the National Center for Atmospheric Research is seeking applicants for our **2013 Summer Undergraduate Program for Engineering Research (SUPER)**.

**APPLICATIONS DUE: JANUARY 1, 2013**

The program is open to undergraduate students enrolled in engineering or engineering-related disciplines at accredited U.S. colleges and universities. However, note that some internship projects may require that the intern be (a) a U.S. citizen; (b) lawfully admitted for permanent residence in the United States; or (c) a protected individual as defined by 8 USC 1324b(a)(3).

We will be hiring four students for SUPER internships during the summer of 2013, and applications are being accepted now.

SUPER interns work hands-on with EOL engineers in Boulder, Colorado on atmospheric observing systems including radar, lidar, and sounding, and may spend part of the summer participating in a field deployment operating and supporting one or more EOL observing systems.

EOL provides an hourly wage as well as travel support to and from, and housing while in, Boulder, and expenses in the field

The Application can be found here: [www.eol.ucar.edu/super](http://www.eol.ucar.edu/super)

We are pleased to inform you that the application is now open for the ...

### DEPARTMENT OF ENERGY COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP

(DOE CSGF) at <https://www.krellinst.org/doecsgf/application/>.

This is an exciting opportunity for doctoral students to earn up to four years of financial support along with outstanding benefits and opportunities while pursuing degrees in fields of study that utilize high performance computing technology to solve complex problems in science and engineering.

#### Benefits of the Fellowship:

- \$36,000 yearly stipend
- Payment of all tuition and fees
- \$5,000 academic allowance in first year
- \$1,000 academic allowance each renewed year
- 12-week research practicum at a DOE Laboratory
- Yearly conferences
- Career, professional and leadership development
- Renewable up to four years

Applications for the next class of fellows are **DUE ON JANUARY 8, 2013**. Your help in promoting the opportunity at your institution would be much appreciated. Please display or forward on the DOE CSGF poster (<http://www.krellinst.org/csgf/sites/default/files/CSGF%20Recruitment%20Poster%202013-14.pdf>) for interested students.

The DOE CSGF is open to U.S. citizens or permanent resident aliens who are planning full-time, uninterrupted study toward a Ph.D. at an accredited U.S. university. Senior undergraduate and first-year doctoral students (at the time of application) in engineering and in the physical, computer, mathematical or life sciences are eligible to apply.

**Applications Due: January 8, 2013**

### CRA-W IS ANNOUNCING THE FORMATION OF THE 2013 GRAD COHORT FOR WOMEN

Cohort activities will kick off with a workshop April 5-6, 2013 in Boston, MA, this year generously funded by Microsoft, along with significant support from a private foundation as well as contributions Yahoo!, Google, and other contributors. This workshop is the cornerstone of CRA-W's efforts to increase the ranks of senior women in computing by building and mentoring nationwide communities of women during their graduate studies.

At the Grad Cohort Workshop, we will welcome new women graduate students in their first year of graduate school into the community of computing researchers and professionals by providing them with a broad range of strategies and role models. Strategies and mentoring for students in their second and third years of graduate school will also be provided.

All of the students will meet for two days with 10-15 senior computing researchers, as well as professional advisors and graduate student mentor with expertise in the field. Projects may involve background reading of technical literature and reports, computer-aided design, mathematical modeling, fabrication designs, experimental testing and group discussions and project team meetings. Every student has a project of their own with specific responsibilities and deliverables. At the end of the summer, every student creates a scientific poster and a project report. In addition, there is a program of professional development and social activities with other REU students.

#### Eligibility:

Women students in their first, second, and third year of graduate school in computer science and engineering or a closely related field, who are studying at a U.S. or Canadian institution.

Travel expenses, meals and lodging will be provided for students chosen to participate in this program.

For more information about the Grad Cohort program: <http://cra-w.org/ArticleDetails/tabid/77/ArticleID/55/Graduate-Cohort-Workshop.aspx>

Apply now at: <https://computingresearch.wufoo.com/forms/k7w0p5/>

**Application deadline is Jan. 15, 2013**

### SUMMER 2013 RESEARCH EXPERIENCES FOR UNDERGRADUATES IN SCIENCE AND ENGINEERING!

[Click here for more information and to apply](#)

Application Deadline: **FRIDAY, JANUARY 25, 2013**

Welcome to the [Center for Compact and Efficient Fluid Power](#) (CCEFP) [Research Experiences for Undergraduates \(REU\) Program](#). The program allows undergraduates to gain hands-on experience in conducting original research and apply it to cutting edge applications in fluid power and related disciplines.

The program and Center are funded by the National Science Foundation. Students come from all around the country to work at the seven universities that are part of the Center. Students have a diverse range of majors, experiences and interests. We hope that you will consider joining us this summer.

Students work in a university research lab on a project related to fluid power along with a faculty advisor and graduate student mentor with expertise in the field. Projects may involve background reading of technical literature and reports, computer-aided design, mathematical modeling, fabrication designs, experimental testing and group discussions and project team meetings. Every student has a project of their own with specific responsibilities and deliverables. At the end of the summer, every student creates a scientific poster and a project report. In addition, there is a program of professional development and social activities with other REU students.

REU positions are available at Georgia Tech in Atlanta, University of Illinois in Urbana-Champaign, University of Minnesota in Minneapolis, Milwaukee School of Engineering in Milwaukee, North Carolina A&T State University in Greensboro, Purdue University in West Lafayette, IN and Vanderbilt University in Nashville, TN.

Direct link to the [CCEFP REU Program](#)

CCEFP: <http://www.ccefp.org>

## Faculty in the News

### Seven honored as fellows by the American Mathematical Society



USC News, November 1, 2012

Seven mathematicians at the USC Dornsife College of Letters, Arts and Sciences have been invited to become inaugural fellows of the American Mathematical Society (AMS) for their distinguished contributions to the field.

The honorees are Francis Bonahon, professor and chair of USC Dornsife's Department of Mathematics; Eric Friedlander, Dean's Professor of Mathematics; **Susan Friedlander, professor of mathematics and director of the USC Center for Applied Mathematical Sciences**; University Professor Solomon Golomb, Distinguished Professor of Electrical Engineering and Mathematics, and holder of the Andrew and Erna Viterbi Chair in Communications; and mathematics professors Robert Guralnick, Ko Honda and **Susan Montgomery**.



### Oceanographer Makes Waves

USC Dornsife News, November 16, 2012

Director of the Center for Dark Energy Biosphere Investigations, USC Dornsife's Katrina Edwards has received the prestigious A.G. Huntsman Award presented annually by the Royal Society of Canada.

Katrina Edwards, professor of biological sciences, earth sciences and environmental studies in USC Dornsife, has been awarded the 2012 A.G. Huntsman Award for Excellence in Marine Science. She is the third woman to receive this award in the foundation's 32-year history.

### Lucky Thirteen

USC Dornsife News, November 30, 2012



An unprecedented 13 USC Dornsife professors have been elected as AAAS fellows by their peers for 2012. The organization seeks to advance science and engineering innovation throughout the world for the benefit of all people.

Chosen by their peers in recognition of their research that significantly raises the bar of our understanding of science worldwide, an unprecedented 13 scientists from USC Dornsife have been elected fellows of the 2012 American Association for the Advancement of Science (AAAS).

**Susan Friedlander** is a professor of mathematics and director of the USC Center for Applied Mathematical Sciences. She was selected for "distinguished contributions to applied mathematics and extraordinary service to the American Mathematical Society for more than 30 years as council member, officer and editor."

**Anna Krylov** is a professor of chemistry. She was selected for "distinguished contributions to research in developing robust electronic structure methods for open-shell and electronically excited species, and creative use of ab initio theory."

**Susan Montgomery** is a professor of mathematics. She was selected for "distinguished contributions in the field of algebra as well as her active involvement with the American Mathematical Society."

**Hanna Reisler** is Lloyd Armstrong, Jr. Chair for Science and Engineering and professor of chemistry. She was selected for "distinguished contributions to the field of reaction dynamics, particularly for state-specific experiments combined with theoretical insights of detailed dynamics of small molecules."

## In the News

["No Single Solution" to Gender Disparities at Research Universities, Canadian Study Finds.](#) *Science Careers Blog*, November 26, 2012.

["Move Over, Barbie — You're Obsolete."](#) *Upworthy.com*. (Video on Engineering Toys designed for Girls)

["Why Female Scientists Are a Rarity."](#) *Huffington Post*, November 14, 2012.

["Bridging the Gender Gap in Engineering."](#) *The Vancouver Sun*, October 31, 2012.

["Why It's Time to Stamp Out Sexism in Science."](#) *Huffington Post*, October 29, 2012.

["A Reboot in Recruiting Women Into Computer Science."](#) *The Chronicle of Higher Education*, October 29, 2012.

["Women And STEM Careers: How Microsoft Is Building A Bridge To Future Innovation -- One Girl At A Time."](#) *Forbes*, October 22, 2012.

["Lessons from Ada Lovelace for All Women of the World."](#) *Huffington Post*, October 16, 2012.

["Academic Motherhood."](#) *Inside HigherEd*, October 9, 2013.

## Community Announcements



### From Maja Mataric:

Full-time nanny available:

Ana Marquez worked for us for 9 years and was wonderful. We let her go when our kids got too old and before we knew we'd have another. She got another job with a newborn, who then went to preschool and she then worked with a family with twins. They are now going to preschool so she is again looking for a full-time job.

I recommend Ana strongly. She is in her early 60s now and is great shape, fit and healthy. She is never late or sick and is very agreeable and has a peaceful influence on kids. She was great with babies; calm and soothing and gentle and not easily upset. She can handle multiple kids; she came highly recommended to us from a family of 3 boys!

She drives safely, but does not want to drive on the freeway. Her English is not great but it did not have any impact on our kids, who are excessively verbal.

Ana can be reached at: 323-344-7178 (home) and 323-533-9129 (cell)

To contribute to the WiSE Newsletter, please contact:

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