2015-2016 REU SITE PROGRAM ORIENTATION

WELCOME!
WHO WE ARE...PROGRAM ADMINISTRATORS

Dr. Gary Cottrell
REU Program Director
Professor, CSE

Kate Shanks
REU Program Coordinator
TDLC Executive Assistant

Carmela Arstill
REU Program Coordinator
TDLC DOT Programs Manager
WHO WE ARE...MENTORS

Dr. Andrea Chiba
Dr. Virginia de Sa
Dr. Gedeon Deák
Dr. Bob Clark

Dr. Leanne Chukoskie
Dr. Terry Sejnowski
Dr. Laleh Quinn
Dr. Christine Smith

Dr. Alex Khalil
Dr. Marga Behrens
Dr. Deborah Forster
Dr. Victor Minces
**WHAT IS THE TDLC?**

*TDLC* is a Science of Learning Center (SLC), one of six funded by the *National Science Foundation* (NSF).

The scientific goal of TDLC is to achieve an integrated understanding of the role of time and timing in learning, across multiple time scales, brain systems, and social systems.

We strive to continually build relationships between researchers, educators, students and the general public to generate new, transformational ideas.
OUR GOAL: UNDERSTAND THE ROLE OF TIME AND TIMING IN LEARNING

From the neuronal and millisecond scale...

...to the brain and year-long scale
Hence, we are the biggest, most geographically and scientifically diverse Science of Learning Center
18 institutions
4 countries (US, Canada, England, and Australia)
40 PIs, 5 affiliate PIs, 13 project or research scientists, 41 postdocs, 58 graduate students and 24 undergrads.
THIS IS A BIG TASK!

How do we organize 181 people?

Two orthogonal schemes:

- The network of research networks - the engines of our science

- Our initiatives - the goals of our science
FEATURES OF RESEARCH NETWORKS

**Size**: ~10 Pis +2-3 trainees each make for a workshop-size meeting - everyone can sit around a U-shaped table.

**Interdisciplinarity**: Psychologists, computational modelers, roboticists, animal neurophysiologists, neuropsychologists, neuroimaging experts.

**Common focus**: problem oriented rather than technique oriented.

**Willingness** to collaborate and cooperate.

This creates a *cooperative scientific community.*
AND, IT’S WORKING...

Every line represents an actual collaboration
WHAT IS THE REU PROGRAM?

• This is funded by a grant from the National Science Foundation (NSF).

• The goal of the program is to train you in the specific research areas of TDLC, including machine learning, cognitive science, psychology, & neuroscience.

• The core of the program is a participation in a research project in a TDLC lab over the academic year.

• We hope to provide a rigorous research experience to further prepare you for advanced work in your respective fields.

• My goal is for you to get your name on a paper! This is the number 1 thing that will get you into grad school.
WHAT TO EXPECT FROM THE REU PROGRAM...

✧ 300+ hours of research lab experience
✧ Monthly, themed dinner seminars & the Year-End Symposium
✧ Research Ethics Training workshop
✧ Participation in the UC San Diego Undergraduate Research Conference (URC)
✧ Funds to travel to an academic conference and TDLC network meeting
✧ GRE preparation workshop
WHAT TO EXPECT FROM THE REU PROGRAM...

300+ hours of research lab experience
WHAT TO EXPECT FROM THE REU PROGRAM...

2015-16 Monthly Dinner Seminars

BUT! We plan to start alternating mondays and tuesdays so everyone gets a chance...

October 6th .............................................. REU Orientation
November 3rd .............................................. Research Ethics Presentation
December 1st ............................................. Dinner Seminar
January 21-23rd ........................................ Fellows Retreat & All Hands Meeting
February 9th ............................................. Dinner Seminar
March 7th ................................................. Dinner Seminar
April 5th .................................................... Dinner Seminar
May 31st ................................................... Year-End Symposium
WHAT TO EXPECT FROM THE REU PROGRAM...

Research Ethics Training Workshop
WHAT TO EXPECT FROM THE REU PROGRAM...

**Undergraduate Research Conference (URC)**

- UC San Diego faculty nominate based on outstanding work.
- Encourages undergraduates to pursue doctoral degrees and careers in research and college teaching.
- Organized by discipline-specific roundtable discussions.
- 5-7 students present their research papers with one or more faculty members serving as moderators.
- All participating students are awarded a Research Scholar certificate.
- “How to Present” Seminar: Mid-April, usually a week before conference
WHAT TO EXPECT FROM THE REU PROGRAM...

**Travel Funds**

- $1100 combined to travel to an academic conference **AND/OR** a TDLC network meeting.

- Prepaid airfare can be arranged to avoid out of pocket expenses. Meals, hotel, ground transportation and registration are reimbursed after the event. **SAVE ALL RECEIPTS! SUBMIT REQUEST WITHIN 1 WEEK AFTER TRAVEL!**

- Discuss conference(s) of interest with your mentor.

- Regularly check TDLC and REU websites for upcoming meetings.

- All REU Trainees & Affiliates are expected to attend the TDLC **All Hands Meeting.**
WHAT TO EXPECT FROM THE REU PROGRAM...

**Travel Funds (continued...)**

- E.g., you could get $550 towards travel to an academic conference (SfN, ERN, iSLC) and $550 towards travel to a TDLC network meeting (PEN, SMN, SIN, IMS), or if necessary, combine it for one meeting.
- Approval from your Mentor and Kate required.
- Start looking into conferences now!
WHAT TO EXPECT FROM THE REU PROGRAM...

Gre Preparation Workshop

• Grad Pros Educational Consulting:
  Michael P. Flynn, Ed. M.
  619-488-2131
  gradpros@gmail.com

• Dates of 2015-16 GRE Preparation Workshops:
  TBD 4 weekends 9:00 AM – 5:00 PM @SDSU
  MUST attend all 4 days!

• Free Practice Test: http://www.kaptest.com/pages/free-events
2015 -16 REU Trainees:

Mary Graves.............................Bob Clark
Abdulaziz Hashi........................Bob Clark
Scotty Vincent.........................Bob Clark
Nicole Butler .........................Andrea Chiba & Laleh Quinn
Luisa Schuster.........................Andrea Chiba & Laleh Quinn
Chandrika Kumar.....................Andrea Chiba & Alex Khalil
Emily Kent..............................Andrea Chiba & Alex Khalil
Rachel Pendakur......................Andrea Chiba & Alex Khalil
Marisabel Coronado...................Gedeon Deák
McKenna Williams.....................Gedeon Deák
Dara Moghavem.......................Virginia de Sa
Marlene Samano.......................Leanne Chukoskie
Nicole Suarez........................Leanne Chukoskie
Shuying Yu.............................Christine Smith
Louis Wilkerson.....................Deborah Forster
Karlen Ulubabayan....................Marga Behrens/Terry Sejnowski
QUESTIONS???
Life passes in milliseconds, but what we learn in those milliseconds changes us for life.