



## What's New



**NSF Site Visit 2014 - June 19-20, 2014**  
More information coming soon!

### **TDLC Acting Director Andrea Chiba represents TDLC at an International Convention on the Science of Learning in Shanghai, China (March 1-4, 2014)**

TDLC's Andrea Chiba was invited to an international event that was organized by Organization for Economic Cooperation and Development, National Science Foundation (NSF), UNESCO, ECNU, Shanghai Normal University, and the University of Hong Kong. The meeting, held in Shanghai, China, was titled "Science of Learning: How Can It Make a Difference?" Andrea presented a talk on Synaptic Plasticity, and then participated in World Policy Meetings centered around the Science of Learning. [Click here](#) to learn more about the conference!



### **Salk Scientist Fred Gage named to National Academy of Inventors (Dec. 12, 2013)**

NAI Fellows are nominated by their peers, and "are honored for having demonstrated 'a prolific spirit of innovation in creating or facilitating outstanding inventions and innovations that have made a tangible impact on quality of life, economic development, and the welfare of society.'" [More](#) ➔

### **TDLC Post Docs Transition to New Academic Posts!**

TDLC, with its diverse and cutting-edge research, has a history of attracting talented, highly motivated trainees to join its labs. An example of the Center's progress in supporting graduate research and training is the transition of two recent TDLC Post Docs, Beth Rogowski and Gabriella

### April 2014

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- ⌘ [TEN's Social Networking Site](#)
- ⌘ [TDLC on YouTube](#)



### Upcoming Events

- ⌘ [Convergence Music Symposium](#)  
Date: May 18, 2014
- ⌘ [TDLC NSF Site Visit](#)  
Date : June 19-20, 2014
- ⌘ ["Approaching Twenty Years of Knowledge Tracing" Workshop](#)  
Date : July 4-7, 2014

## Educators



[TDLC's The Educator Network](#)

### **Recent Forum Topic: *Neuromyths and why they persist in the classroom***

This short discussion on neuroscience in the classroom is a result of an effort in Great Britain to test theories of learning based on neuroscience. It reinforces how we need to be cautious of neuromyths and test ideas based on evidence. [Click here](#) to listen!

## IN THE COMMUNITY

🔍 **Study Finds New Evidence that**



Beth Rogowsky and Gabriella Musacchia

Musacchia.

Dr. Rogowsky came to TDLC as a Post Doctoral Associate in Paula Tallal's lab at Rutgers University-Center for Molecular and Behavioral Neuroscience. There, she focused on a neuroplasticity-based cognitive and linguistic skills training program. She has moved on to her current position as [Assistant Professor at Bloomsburg University of Pennsylvania](#). Dr. Musacchia worked with April Benasich at the [Infancy Studies lab](#) at TDLC, also located at Rutgers University. She focused on how infants form the neural building blocks of language. She continues her research in her new position as [Assistant Professor, Communication Sciences and Disorders, at Montclair State University](#) in New Jersey.

Both scientists share their views on being part of a TDLC lab - the benefits of being part of a multi-disciplinary group with shared scientific knowledge, diversity of views, inter-connections, and resources. [More](#)



**Convergence Music Symposium: A Multidisciplinary Dialogue on Music**

Sunday, May 18, 2014, 9 a.m. to 7 p.m. at the Conrad Prebys Music Center, 127

TDLC and the [Department of Music at UC San Diego](#), in collaboration with [Mozart and the Mind](#) present Convergence, a multidisciplinary dialogue on music. The symposium brings together academic researchers, composers, educators and clinicians in a series of panels examining interdisciplinary crossroads between music, composition, education, health and cognitive neuroscience.

TDLC investigator Alex Khalil is helping to organize the event, and explains that "Convergence is not only a platform for dialogue between disciplines but also an opportunity for collaboration."

Register online at: [\(link\)](#)

Registration fee: \$45 general, \$15 student

[More about the event](#) [More about Mozart & The Mind Series](#)

**Upcoming Event: "Approaching Twenty Years of Knowledge Tracing" Workshop**

TDLC principal investigator Mike Mozer is co-organizing an International workshop in conjunction with The 7th International Conference on Educational Data Mining

Dates: July 4, 2014 - July 7, 2014

Location: Institute of Education, London, UK

[More](#)

**Autism Begins During Pregnancy** (UC San Diego News Center, April 03, 2014) Research headed by scientists at UC San Diego Autism Center of Excellence

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**New maps may hold clues to brain mysteries** (CNN, April 2, 2014)

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**Sleep loss may cause brain damage, new research says** (CNN Health, March 19, 2014)

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**Put Down That Cellphone! Study Finds Parents Distracted by Devices** (NBC News Health/Parenting, March 9, 2014) TDLC's Gedeon Deak interviewed for article

[Read More](#)

**U.S. lagging behind in rate of neuroscience funding, needs more international collaboration** (Fierce Government, March 3, 2014)

[Read More](#)

**Poor sleep quality linked to reduced brain gray matter in Gulf War vets** (American Academy of Sleep Medicine, February 28, 2014)



**8th Annual TDLC All-Hands Meeting (AHM)**

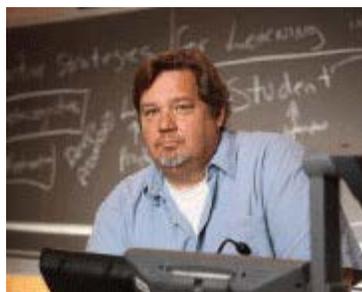
This annual gathering of TDLC members and invited guests occurred on February 7 and 8, 2014.

[Watch the talks on The Science Network!](#)

[AHM Presenters List](#)

**Paula Tallal - Full-Time in San Diego!**

As of February 1, 2014, Paula Tallal became a Research Scientist at UC San Diego. Her appointment is in the [Center for Human Development](#). Paula has also been appointed as an Adjunct Professor at the Salk Institute. She will continue to be one of TDLC's Co-Directors, but now TDLC will have the advantage of having her full-time in San Diego.



**Brain Awareness Week Presentation**

The Educator Network (TEN) organized a Brain Awareness Week Presentation on March 13, 2014, to celebrate [Brain Awareness Week](#).

The event included a Live Presentation/Webinar and Panel Discussion, featuring speaker Dr. David Daniel, professor of Psychology at James Madison University. Dr. Daniel, who

studies teaching and the translation of scientific research to educational practice, spoke about ***Making Your Brain Mind: An Owner's Manual***. Demos were then featured by students from area schools and UC San Diego.

[More information](#)

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**Brain differences linked to insomnia identified by researchers**

(Johns Hopkins Medicine, February 28, 2014)

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**First glimpse of brain circuit that helps experience to shape perception**

(ScienceDaily, March 2, 2014)

[Read More](#)

**Listening to Language**

This article discusses how the human auditory cortex extracts and encodes the basic building blocks of human language.

(Science, February 28, 2014)

[Read More](#)

**New evidence that chronic stress predisposes brain to mental illness**

(UC Berkeley, Feb. 11, 2014)

[Read More](#)

**We recognize less attractive faces best: How attractiveness interferes with recognition of faces**

(ScienceDaily, February 4, 2014)

**TDLC PIs Javier Movellan and Marni Stewart Bartlett In The News!**

▶ [Computers Spot False Faces Better Than People](#) (UC San Diego News Center, March 20, 2014)

▶ [UC San Diego Start-Up Emotient Shows the Face of New Technology](#) (UC San Diego News Center, March 12, 2014)

▶ [This Google Glass App Will Detect Your Emotions, Then Relay Them Back To Retailers](#) (March 6, 2014)

▶ [Facial-Recognition Tech Can Read Your Emotions](#) (LiveScience, 1/30/14)

▶ [The future of shopping: When psychology and emotion meet analytics](#) (ZDNet, Jan. 15, 2014)

▶ [Emotient Receives Most Innovative New Product Award From CONNECT](#) (Emotient press release, Dec. 9, 2013)



**New Publication by TDLC's Mike Mozer, Doctoral candidate Rob Lindsey, and DEAP member and middle-school teacher Jeff Shroyer:**

▶ [CU-built software uses big data to battle forgetting with personalized content review](#) (Univ. of Colorado Boulder News, Jan. 21, 2014)

According to a new study by the University of Colorado Boulder, computer-based individualized study schedules can help students remember what they have studied. TDLC's Mike Mozer is senior author of the study, published in the journal *Psychological Science*. Another related article about their study: [Students remember more with personalized review, even after classes end](#) (Jan. 21, 2014).



**Welcome Carmela Arstill!**

**New TDLC Diversity, Outreach & Translation (DOT) Programs Manager**

The TDLC team is delighted to announce the appointment of Carmela Arstill as the new DOT Programs Manager. Carmela will be responsible for managing and growing the suite of TDLC programs relating to our work in



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▶ **New knowledge literally reshapes your mind** (Nature Neuroscience, March 3, 2014)  
[Read More](#)

▶ **SDSC/UC San Diego Researchers Hone in on Alzheimer's Disease** (UC San Diego, February 18, 2014)  
[Read More](#)

▶ **Finding points to possible new Parkinson's therapy** (University of Rochester Medical Center, Jan. 28, 2014)  
[Read More](#)

▶ **Look Ma, No Hands! Mind-Controlled Helicopter Flies on Brainwaves** (NBC News)  
[Read More](#)

▶ **Are we born with a moral core? The Baby Lab says 'yes'** (CNN, February 14, 2014)  
[Read More](#)

▶ **Scientists Discover New Genetic Forms of Neurodegeneration** (UC San Diego News, January 30, 2014)  
[Read More](#)

▶ **Good Cholesterol Is Also Good For Your Brain** (UC Davis, December. 30, 2013)  
[Read More](#)

education/translation and outreach to the public, education professionals, our fellow scientists and trainees, and pre-college schools ranging from middle through high schools. She will also ensure that TLDC outreach and education efforts are inclusive, reflecting a diversity of ideas and the diversity of society.

"I am thrilled to be back at UC San Diego and working with an innovative and inspiring team!" Carmela shared. "Having worked previously for the School of Medicine's Diversity Outreach programs afforded me the opportunity to strengthen my leadership and technical skills to work with the TDLc team to strengthen their DOT programs, as well as aid in the efforts to continue TDLc's collaborations for at least another 10 years!"

Carmela possesses the critical technical, analytical, and people skills required to successfully manage and grow TDLc DOT programs. She has 1 years on-the-job experience at UCSD developing and coordinating innovative outreach and diversity programs focused on science research training for middle school, high school, and university level students. In that capacity, she led multi-disciplinary teams of researchers and students, and engaged key leaders and members of the educational and philanthropic communities. With these experiences, she will be able to facilitate the design and execution of new student training and outreach events, manage existing programs such as the REU Site Program and Summer Fellows Institute 9Boot Camp), support the master teachers and administrators of The Educator Network, and assist TDLc leadership in sustainability planning efforts. Additionally, her technical skills will enable her to contribute to the management and modification of the existing database, website outreach and diversity platforms, and TDLc marketing tools, which will be critical to streamlining administrative activities and enhancing potential research fundraising efforts.

Ms. Arstill possesses a BA in Biology and Psychology, and an M.Ed. in Education and Computers. She is a former UC San Diego Revelle student, completing her Masters studies at the University of Southern California.

This message was sent from:

The Temporal Dynamics of Learning Center (TDLc.UCSD.EDU)

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TDLc is a Science of Learning Center (SLC), one of six SLCs funded by the National Science Foundation. NSF grant #SBE-0542013

 **Why induced comas help injured brains**  
(CNN Health, December 31, 2013)  
[Read More](#) 

 **Support grows for brain-enhancing benefits of exercise**  
(Miami Herald Health, December 17, 2013)

TDLc's Fred Gage and his research is mentioned in the article. [Read More](#) 

### Did You Know?

#### Daytime Naps Help Improve Learning in Preschool Children

How does this happen? According to a study by researchers at the University of Massachusetts, Amherst, daytime naps significantly enhanced the children's memories. Research psychologist Rebecca Spencer and her team studied the effects of daytime naps on 40 preschool children by measuring their performance on a simple memory game. Spencer and her colleagues found that when the children skipped their naps, they recalled 10 percent fewer of the test locations than when they napped. "We're providing a simple proof that naps are really critical to the day, and scientific evidence that's needed to protect that as part of the day," Spencer says. [More](#)

(reference: US News)