

Keynote Speaker



Dr. Daniel B. Work
Assistant Professor, University of Illinois at Urbana-Champaign

Daniel B. Work is an Assistant Professor at the University of Illinois at Urbana-Champaign. His research interests include control, estimation, and optimization of cyber physical systems, mobile sensing, and inverse modeling and data assimilation, applied to problems in civil and environmental engineering. Dr. Work currently leads a research group working on problems with the cyber physical nature of current and future transportation systems. They focus on developing new mathematical models of traffic, sensing paradigms to monitor human mobility, and estimation algorithms to fuse together the models and data. Their smartphone application TrafficTurk was launched in October of 2012 to monitor traffic during extreme congestion events. It was deployed to measure traffic at more than 100 intersections during the University of Illinois Homecoming football game, temporarily transforming the Urbana-Champaign area into a densely monitored transportation network. Experiments have since continued to collect data throughout a natural disaster (Hurricane Sandy, NY) and The Farm Progress Show of Decatur, IL, which is the nation's largest outdoor farm show. TrafficTurk's research and development are intended to make an easily deployable and flexible temporary traffic sensing system. Take a look here: <http://trafficturk.com/>

As a faculty member within the Department of Civil and Environmental Engineering and the Coordinated Science Laboratory, Daniel teaches courses in transportation engineering and systems engineering. He earned his Bachelor of Science degree (2006) from the Ohio State University, and a Master of Science (2007) and Ph.D. (2010) from the University of California, Berkeley, each in civil engineering. His awards and honors include receiving the Dwight David Eisenhower Transportation Fellowship from the U.S. Department of Transportation in 2008 and an Eno Fellowship from the Eno Transportation Foundation in 2010, and the 2011 IEEE Intelligent Transportation Systems Society Best Dissertation Award.

Welcome Address Speaker



Dr. Jennifer K. Barton
Interim Vice President for Research, University of Arizona

Jennifer Barton received the BS and MS degrees in electrical engineering from the University of Texas at Austin and University of California Irvine, respectively. She worked for McDonnell Douglas (now Boeing) on the Space Station program before returning to The University of Texas at Austin to obtain the Ph.D. in Biomedical Engineering in 1998. She is currently Professor of Biomedical Engineering, Electrical and Computer Engineering, Optical Sciences, and Agriculture and Biosystems Engineering at the University of Arizona. In 2012 she became Associate Vice President for Research, and in 2013 began serving as Interim Vice President for Research.

Barton develops miniature endoscopes that combine multiple optical imaging techniques, particularly optical coherence tomography and fluorescence spectroscopy. She evaluates the suitability of these endoscopic techniques for detecting early cancer development in patients and pre-clinical models. Additionally, her research into light-tissue interaction and dynamic optical properties of blood laid the groundwork for a novel therapeutic laser to treat disorders of the skin's blood vessels. She has published over 80 peer-reviewed journal papers in these research areas.

Barton previously was Assistant Director of the BIO5 Institute, a collaborative research institute dedicated to solving complex biology-based problems affecting humanity. She served as the inaugural Department Head of Biomedical Engineering and Chair of the BME Graduate Interdisciplinary Program. She is a fellow of SPIE- the International Optics Society, and a fellow of the American Institute for Medical and Biological Engineering.



Diamond Atrium / S. Ballroom					
8:00	Registration - Diamond Atrium Breakfast - S. Ballroom				
8:30	Welcome Remarks - S. Ballroom				
	Catalina	Santa Rita	Tucson	Rincon	N. Ballroom
9:15	SBS Goes Mobile with jQuery Mobile	An Introduction to Including Social Media in Mobile Applications	Mobile Market Trends	A Blind Child CAN Use an iPad	Workshop: Teaching with Mobile Technologies
10:15	Interactive Abstract - Mirrors on Mobile Devices	The Smartrek Project - How UA Planted a Seed and Helped it Grow.	Technology: A Means to an End	Apps in a Flash	Workshop: The Design Process
S. Ballroom					
11:30	Keynote Address/Lunch - S. Ballroom				
	Catalina	Santa Rita	Tucson	Rincon	N. Ballroom
1:15	Make Your own Icon Font	Beyond Responsive: Javascript Recipes for App-Like Behavior in Websites	UA Enterprise GIS: Responsive Web Map Application	Overcoming the GAP between K-12 and Next Step-College	Workshop: Tech Transfer Arizona
2:30	eContent: Using eTexts for Teaching - An Update	Mobile Accessibility	Mobile Meeting Schedule: A Responsive Table in the Real World	Today's Technology: Making 1984 Reality	Workshop: SocialLink
Diamond Atrium					
3:30	Poster Session/Networking Reception - Diamond Atrium				

Thank you to our sponsors



8:30am

Welcome Address - S, Ballroom

Welcome Address by Dr. Jennifer Barton, Interim Vice President for Research, University of Arizona

9:15am

SBS Goes Mobile with jQuery Mobile

Catalina

David Celaya

The College of Social & Behavioral Sciences is pleased to announce its first mobile services—

Wise Advising and Ticket Dog! Wise Advising is an

appointment scheduling system allowing students

support while away from their desks. Both were

built using jQuery Mobile—an HTML5-compliant

user-interface system built on the jQuery and

jQuery UI foundation.

A Blind Child CAN Use an iPad

L. Penny Rosenblum

Rincon

Students who are blind and have low vision can

have success with iPad apps! During this session

the audience will learn the background to the

AnimalWatch Vi Suite's 3 year federal project and

discuss current training programs for teachers

in Arizona. We will view a demonstration of the

AnimalWatch app with Bluetooth keyboard and

refreshable braille display as well as the UAbacus

app that was developed in collaboration with OIA.

An Introduction to Including Social

Media in Mobile Applications

Mike McKisson

Santa Rita

Current social media trends and their relationship

to mobile applications will be discussed. A case

will be made for the inclusion of social media in

mobile applications and examples of applications

integrating social media in their products. Lastly we

will begin exploring social media APIs and provide

ideas for including social media into your own

projects.

Workshop: Teaching with Mobile

Technologies

Jonathan Sprinkle, Vanessa Garrison, &

Gregory Anderson

N. Ballroom

Moderated by: Dr. Jonathan Sprinkle, Assistant

Professor, Electrical and Computer Engineering.

The Smartrek Project - How UA Planted a

Seed and Helped it Grow

Yi-Chang Chu

Santa Rita

Smartrek is a collaborative easy-to-use traffic app

powered by a sophisticated backend system. This

talk presents the history of the Smartrek project,

how we focused the "Why", "How" and "What"

to communicate with various audiences along the

way, and what we have learned from users and the

importance of learning, crafting, and getting out of

our comfort zone - more importantly, never letting

technology be our religion.

Workshop: The Design Process

Evi Lovares & Jenny Wendt

N. Ballroom

Turn that killer idea into a mobile site or app that

makes your users say 'ahhh' - and not out of

frustration, 'urgh'! Following these simple steps

will demystify the process of building a user-centric

mobile experience. We will look at planning,

content, hierarchy, mood boards and wireframes

that deal with fat fingers, tons of viewport sizes,

orientations - and yes - the fact that your experience

won't just end at launch!

Welcome Address - S, Ballroom

Welcome Address by Dr. Jennifer Barton, Interim Vice President for Research, University of Arizona

11:30am

Keynote Address - S, Ballroom

Keynote Address by Dr. Daniel B. Work, Assistant Professor, University of Illinois at Urbana-Champaign

1:15pm

Make Your own Icon Font

Rebecca Macaulay

Catalina

With device display densities on the rise, traditional

methods for displaying graphical elements are

quickly becoming obsolete. Support for scalable

vector graphics (SVG) is still sketchy, but support for

fonts is better. A demonstration on how to make

eye-candy icons and get them on your site by means

of open-source vector software (Inkscape), CSS3 @

fontyouface declaration, and online services will be

provided.

Overcoming the GAP Between K-12 and

Next Step – College

Thomas Molina and Michelle Ortiz

Rincon

In this presentation we will explore technologies

that can be used alongside instructional solutions

to overcome gaps between high school and college

learning.

2:30pm

eContent: Using eTexts for Teaching

- An Update

Garry Forger, Cheryl Cuillier & Ryan Hively

Catalina

The University of Arizona launched a pilot project

for the Fall 2013 semester exploring the use of

eTexts and the Courseload eContent platform.

We will provide an update on the progress of the

pilot, provide feedback from both students and

faculty, and talk about the Courseload interface and

platform.

Today's Technology Making 1984 Reality

Kay Mathiesen & Thomas Molina

Rincon

Today's technology allows greater access to real-

time activity information than ever before. This

talk will explore access to data from a business

perspective and then incorporate the legal and

ethical implications of access.

3:30pm

Poster Session/Networking Reception - Diamond Atrium

Beyond Responsive: Javascript Recipes

for App-like Behavior in Websites

Thomas Bourgeois

Santa Rita

The browser delivers way more than just content.

JavaScript straight-up or leveraged with libraries

like jQuery or modernizr can enhance user

interaction in very sophisticated ways without very

much overhead. In this talk we'll learn functional

examples and techniques to add app-like behaviors

to your site.

Workshop: Tech Transfer Arizona

Doug Hockstad

N. Ballroom

Moderated by: Doug Hockstad, Director, Tech

Transfer Arizona

Mobile Accessibility

Dawn Hunziker

Santa Rita

Individuals with disabilities and mobile web users

experience similar interactions and barriers when

using the web. By following the "Web Content

Accessibility Guidelines" and "Mobile Web Best

Practices," web content is more accessible to

everyone regardless of situation, environment or

device. This session will highlight shared design

techniques and the guidelines which ensure web

content is accessible for all users.

Workshop: SocialLink

Hector Rosales

N. Ballroom

Moderated by: Hector Rosales, Student, Eller

College of Management and College of Humanities

& Co-Founder and Chief Financial Officer, SocialLink

App

UA Enterprise GIS: Responsive Web Map

Application

Grant McCormick, Balaji

Tucson

The University's Enterprise GIS has developed a

new responsive web map application which will be

described in terms of its development process, its

current functionality, and its vision for providing

greater value for the UA community in the future.

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Full session descriptions and capture at: <http://mobilematters.arizona.edu/program>