Cybersecurity Simulation Professor Joins IST

While Internet and computer use are often for forming connections with other people, recent attacks on major companies and governments have showcased their use for malicious intent. There is a dire need for researchers and practitioners to understand the behavior of different kinds of people using cyberspace regardless of whether they do so with malicious intent or not. Now UCF and IST have partnered with Dr. Wingyan Chung to strengthen modeling and simulation’s connection to cybersecurity with the pioneering of cyberattack and defense experiments.

Dr. Wingyan Chung received his Ph.D. in Management Information Systems from the University of Arizona (UA) and an M.S. and B.B.A. from the Chinese University of Hong Kong. His scholarly interests and expertise include business intelligence, social media analytics, security informatics, data/text/Web mining, simulation, visualization, knowledge management, and human-computer interaction. His research addresses information overload, security issues, and knowledge management in organizations by designing, developing and evaluating new IT solutions.

Dr. Chung has plans to identify and pursue opportunities for resources with the goal of enhancing our reputation in the Modeling and Simulation community. Like any scholar he’s looking forward to finding suitable proposals, pursuing contracts and grants, and enhancing the research positions and intellectual properties of the University.

(continued on page 2)
Alan Paris, NSF Grant Winner

Alan Paris, third-year doctoral student in the Modeling and Simulation program, is part of a winning NSF Standard Grant under the Communication and Information Foundations (CIF) Signal Processing Directorate. Alan’s research focused on using mathematical models to eliminate noise from EEG results. It is also the topic of his award-winning 2014 UCF Graduate Research Forum entry in the category of Computer Science, Engineering, and Modeling and Simulation.

In Alan’s words, “The immediate goal is to improve the information-carrying capacity of brain-computer interfaces to allow quadriplegic individuals to control wheelchairs, special-purpose Internet browsers, and their home environment.” He plans to apply related methods to the diagnosis of traumatic brain injury in veterans and localizing epileptic seizure foci in children prior to brain surgery. Alan plans to further his research to also investigate the links between cybernetic neuroengineering and neuropharmacology to create new treatment approaches for illnesses such as epilepsy, depression, and schizophrenia.

Paris is the Director and Founder of a new IST Lab called NeuroLogic and hopes to use the NSF award to further his lab research. Congratulations Alan!

Ron Tarr Retires After 22 Years

After 22 years of dedication and service, IST wants to wish Ron Tarr a very happy retirement. As the Program Director of RAPTER, Ron has been the face and voice of transportation simulation training and human performance application here at IST and will be missed. His self-described breathless enthusiasm led to him being known as the unofficial official IST Tour Guide. Lab tours won’t be nearly as fun or informative without him, though they may finally run on time! Luckily, Ron plans to stay involved in the community so we’ll still be seeing him and hearing his singing down the halls. Thanks for all the memories, Ron! May there be many more!

MaSK Mentoring Program

The Modeling and Simulation Knights (MaSK) have created a mentoring program in conjunction with the National Center for Simulation and WISE. This is a new pilot program that allows Modeling and Simulation graduate students (or students interested in related STEM disciplines) to work with mentors within the simulation industry.

If you are interested in participating in the program, please contact Rebecca Leis at rleis@ist.ucf.edu.

New Cybersecurity Simulation Professor

We encourage you to stop by and introduce yourself to Dr. Chung. As he says, “I am very glad to join IST and UCF. I find that this opportunity in my new position here to be tremendous and the best I’ve seen in my career and I am very glad and honored to be here. I’m more than happy to meet and chat with anyone who comes by my office. I look forward to getting to know you all and exchanging ideas, interest and collaborations.”
We asked our Summer 2015 Graduates to share some words of advice with new students:

“It’s funny cause everyone always says that you just have to do it, but at some point you get to the place where you say, ‘I have got to finish this,’ and that’s where it happens.” -Alicia Hayes, Ph.D.

“My advice would be to first, never lose sight of your goals. You will get overwhelmed but that doesn’t mean you can’t do it. Also make sure you aim to have a good work/life balance. Sometimes it’s not possible but if you try, you’ll find it’s much easier to get through school when you’ve made time for family and friends. It’s really important to have a social support system if you can. And never give up!” -Kimberly Stowers, M.A.

“Just do it. Stop waiting. I spent probably six years trying to decide whether or not I was going to do masters. And I’m like, ‘I started it and now I’m done.’ It’s that easy.” -Luke Read, M.A.

“HURRY UP AND GET OUT! I’m just kidding…. Don’t lose focus. Just remember that there is an ending. If you plan and stick to your plan, there will be a few surprises but you’ll get out, you’ll be fine.” -Douglas Maxwell, Ph.D.

---

Florida Simulation Summit

Orange County Mayor Teresa Jacobs and the National Center for Simulation are hosting the Florida Simulation Summit to highlight the state’s multi-billion dollar simulation industry and help identify opportunities for businesses to commercialize simulation. Simulation is a key enabler in a multitude of industries beyond defense, including entertainment, education, healthcare, energy, transportation and manufacturing. Simulation impacts the way we live, work, and entertain.

Learn from the simulation experts at Walt Disney World®, University of Central Florida, Space Florida and many others about how simulation enhances companies’ operations, safety and bottom line. Hear stories from companies and organizations about how they use simulation. Learn how to apply simulation to improve training and education. Discover how educators are using simulation to prepare students for STEM careers and hear stories from universities that are developing advanced simulation technologies.

Speakers include:

- **Michael Tschanz**, Director of Technology and Analysis, Walt Disney World®
- **Dr. Mohamed Abdel-Aty**, PE, Professor and Chair at University of Central Florida - Center for Advanced Transportation Systems Simulation
- **Dr. Robert Amyot**, President of CAE Healthcare
- **Dale Ketcham**, Chief of Strategic Alliances at Space Florida

The event will be held at the Orange County Convention Center (South Concourse, Room 320) on September 16 from 8 a.m. to 5 p.m. The event cost is $25 in advance or $50 at the door. For more information, call (407) 384-6111. For registration and directions, visit the event website: http://www.simulationinformation.com/events/florida-simulation-summit
Congratulations to all of our 2015 Summer Graduates. All of your hard work and perseverance has paid off and we want to take a moment to recognize your accomplishment. Whether you’re moving on or staying with us for the next portion of your journey, we wish you all the best in the future!

- **Andres Lopes** – Bachelor, Digital Media, Game Design
- **Amanda Woods** – Bachelor, College of Sciences, Psychology
- **Chelsea Iwig** – Masters, M & S, College of Engineering and Computer Science
- **Luke Read** – Masters, M & S and Instructional Design for Simulation Certificate
- **Kimberly Stowers** – Masters, M & S
- **Jennifer Feitosa** – PhD, Psychology, College of Science
- **Aleshia Hayes** – PhD, M & S, College of Engineering and Computer Science
- **Douglas Maxwell** – PhD, M & S, College of Engineering and Computer Science
- **Amanda Thayer** – PhD, Psychology, College of Science
- **Christopher Wiese** – PhD, Psychology, College of Science
- **Travis Whiltshire** – PhD, M & S, College of Science

IST would like to welcome our newest employees. If you pass them in the hall, be sure to introduce yourself!

- **Dr. Pamela Andreatta**
  Healthcare Simulation
- **Dr. Wingyan Chung**
  Cybersecurity Simulation
- **Dr. Max Hooper**
  METIL Lab
- **Katie Blackburn**
  ACTIVE Lab
- **Cintya Larios**
  PRODIGY Lab
- **Natalie Mades**
  RAPTER Lab
- **Andres Lopes**
- **Amanda Woods**
- **Chelsea Iwig**
- **Luke Read**
- **Kimberly Stowers**
- **Jennifer Feitosa**

---

Do you have a news item or project you’d like featured on our website or in our newsletter? A noteworthy project you think deserves attention? We’d like to hear about it! Are you attending or presenting at an event that we should all know about? Does someone in your group deserve accolades? These are the kind of things we want to include in the newsletter and highlight on the IST website. Email us at graphics@ist.ucf.edu with your news items.