



School of Modeling, Simulation & Training

Cyber Intelligence Lab

<https://cyber.ist.ucf.edu/>

Director: Wingyan Chung, Ph.D.



Excellence in Research



Dr. Chung receives the Excellence in Research Award from Dr. Elizabeth Klonoff, VP of Research, UCF.



National Research Award

<https://www.ucf.edu/news/12-5m-grant-will-help-predict-spread-online-social-behavior/>

\$12.5M Grant Will Help Predict Spread of Online Social Behavior



The Defense Advanced Research Projects Agency has awarded a combined \$12.5 million in federal contracts to two UCF research teams to develop models and massive simulations to help understand online social behavior and predict the spread of information in online social networks.

DARPA awarded \$6.3 million to a team led by Associate Professor Wingyan Chung of the University of Central Florida's Institute for Simulation and Training, and another \$6.2 million to a second team led by Assistant



Impact at an International Scale

Wingyan Chung (third left), other Fulbright US Scholars and US Consulate staff in Hong Kong.



Advancing Knowledge Frontier (ICCD Best Paper Award)



Best Paper Award bestowed to the paper titled "ASMODS: Intelligent Detection of Abnormal Stock Price Movements in Response to Social Media Postings."



Wingyan Chung (2nd from left) receives the Best Paper Award at the ICCD 2017 Conference.

The 3rd International Conference on Intelligent Computing, Communication & Devices
December 9-10, 2017 Shenzhen, China



Cybersecurity Threats Market

- The financial market is highly vulnerable to
- A significant threat occurs when hackers use social media content to try to divert stock price
 - Gaining abnormal profits
 - Assisting targeted companies
 - Disturbing efficient market operations
- The threat is often amplified on social media
- It is challenging for human users to manually detect abnormal price movements
 - Large volume, fast publication, and rarity of abnormal price movements
- Research developed a new system that can automatically detect abnormal stock price



Conference participants came from various places, including Britain, New Zealand, India, USA, China, Hong Kong, etc.

Building Global Partnerships

Clockwise from top-left:

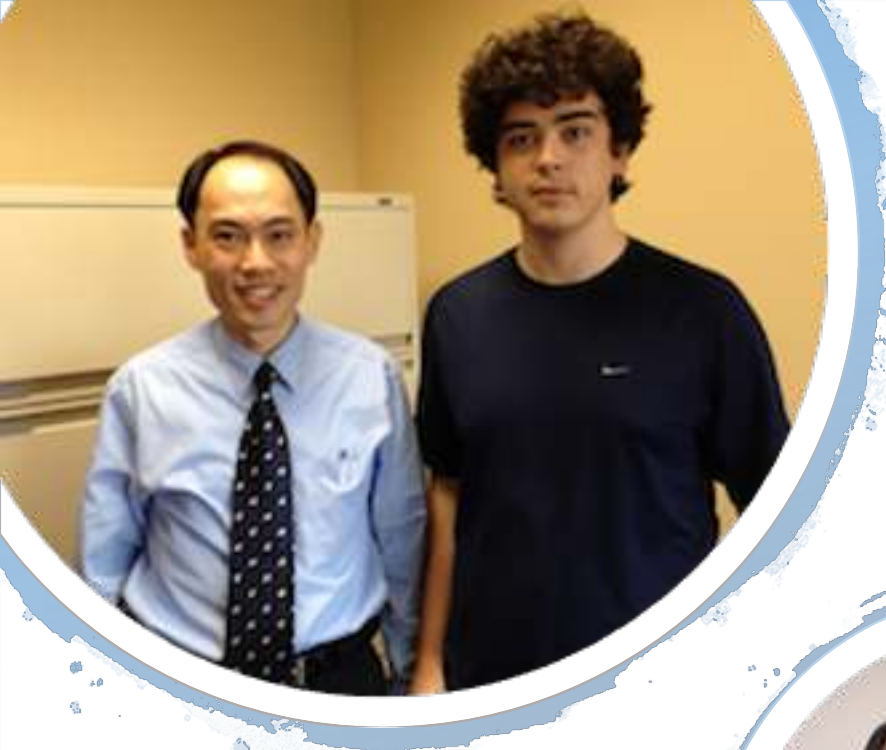
- Chunxiao Xing (right), Professor and Director of Research Institute of Information Technology, Tsinghua University, China
- Dr. K.P. Chow (right), Associate Professor of Computer Science, the University of Hong Kong.
- Dr. Vincent S.K. Lai (right), Professor of Management Info. Systems, Department of Decision Sciences and Managerial Economics, The Chinese Univ. of Hong Kong.
- Dr. Daniel Zeng (left), Gentile Family Professor of MIS at U. Arizona, at the UA National Center for Border Security and Immigration.



Strengthening M&S Program

- Dr. Wingyan Chung is a graduate faculty member of the SMST Modeling & Simulation Program.
- Dr. Peter Kincaid, former Director of the SMST M&S Program, is shown on the right side of the picture.
- Dr. Chung teaches courses in
 - Social Informatic & Simulation
 - Computational Intelligence





Mentoring Students

- Wingyan Chung mentored and co-authored with Nathan O'Hanlon, an undergraduate student in DIS at Stetson. The pictures shows Nathan (right on top-left) and his presentation (lower left) of the AMCIS poster jointly authored by them.
- Wingyan Chung mentored Sarah Flatt (right), a Political Science junior at UCF, in a cyber-trafficking research project funded by the prestigious LEAD Scholars Program.



Promoting UCF SMST

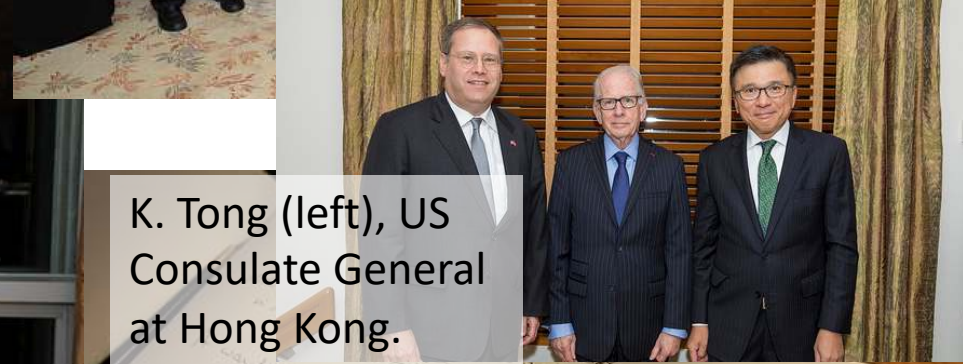
Fostering Education (Institute for International Education 50th Anniversary)



Dr. KC Chan, HKUST Finance Professor, received a gift from Dr. Goodman, IIE President.



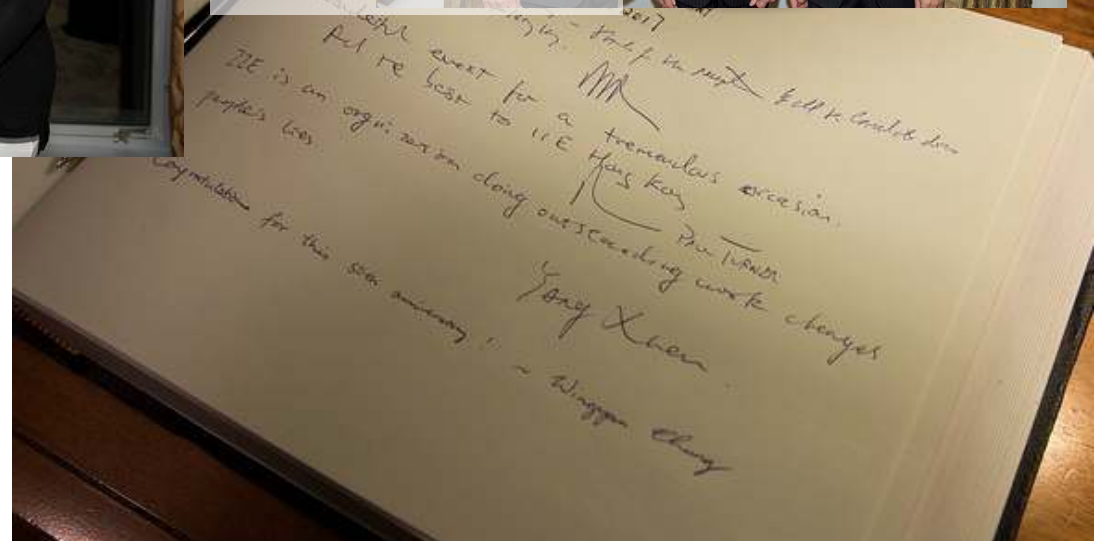
Dr. Chung met with IIE staff.



K. Tong (left), US Consulate General at Hong Kong.



Dr. Wingyan Chung talked with Dr. Allan Goodman, IIE President, regarding the cybersecurity project he works on.



The CI Lab Team

<https://cyber.ist.ucf.edu/home/about.php>

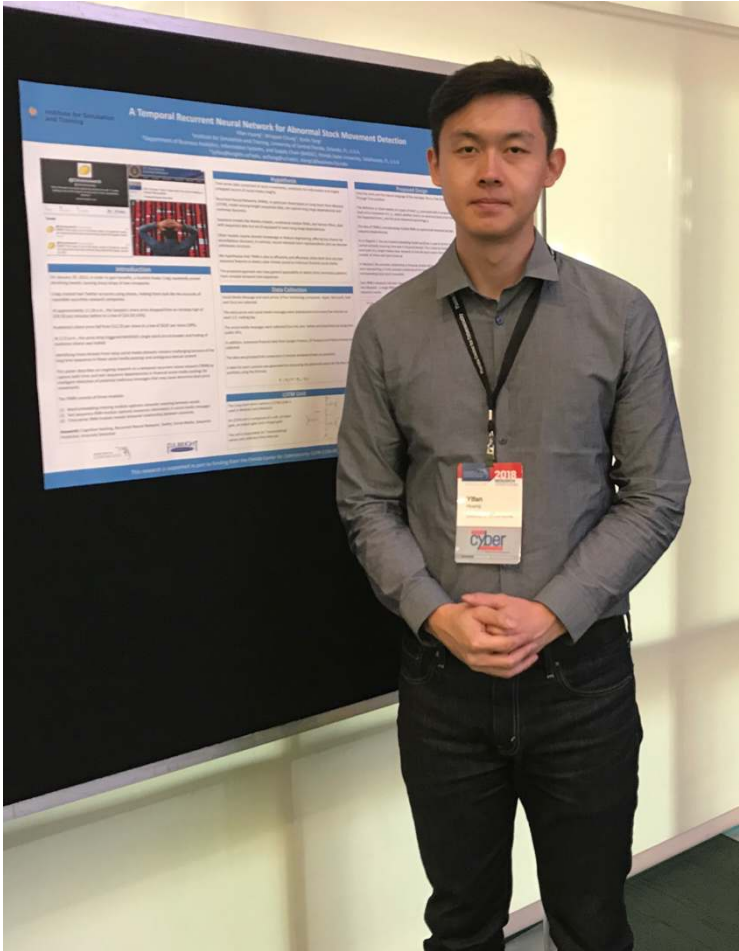
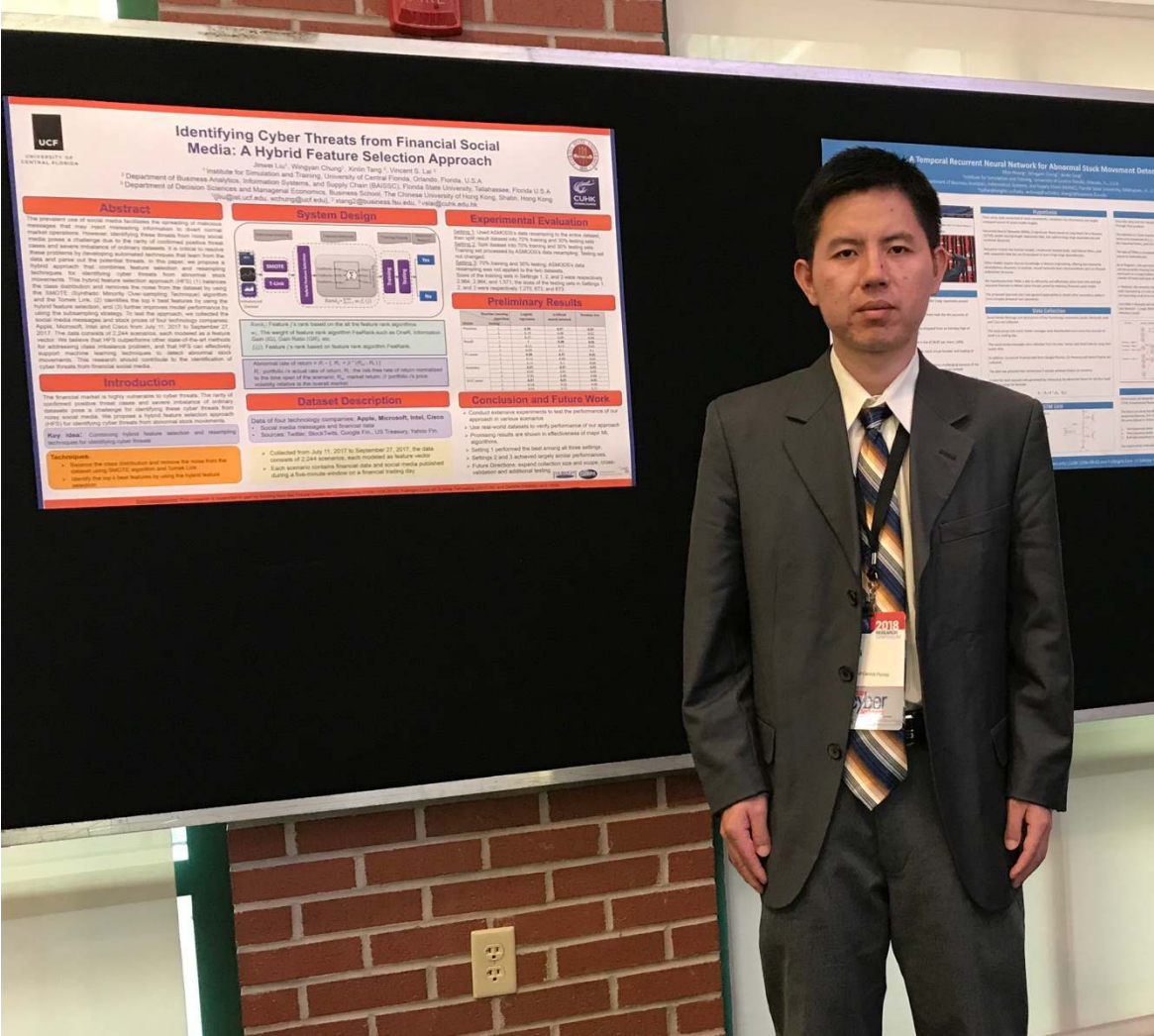


Sharing Knowledge



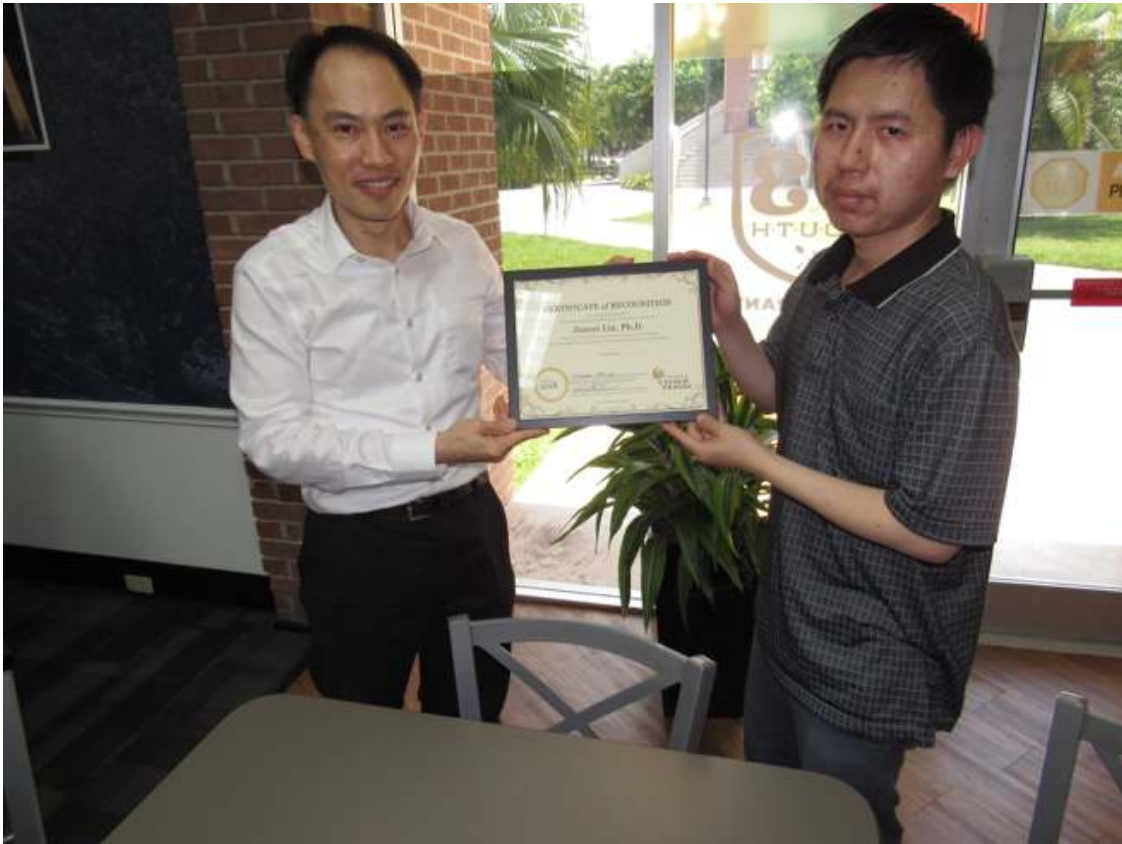
Ph.D. student Yifan Huang presents an accepted paper in IEEE ISI 2018 in Miami, FL.

Exchanging Ideas



Postdoctoral Researcher Dr. Jinwei Liu (left) and Ph.D. student Yifan Huang present accepted posters in The Florida Center for Cybersecurity's Annual Research Symposium 2018 in Tampa, FL.

Recognizing Team Members



Postdoc researcher, Dr. Jinwei Liu (right), receives the award in recognition of excellent academic publications.



Graduate student, Mr. Arvind Sura (right), receives the award in recognition of excellent contribution to IST research.

Building New Communities



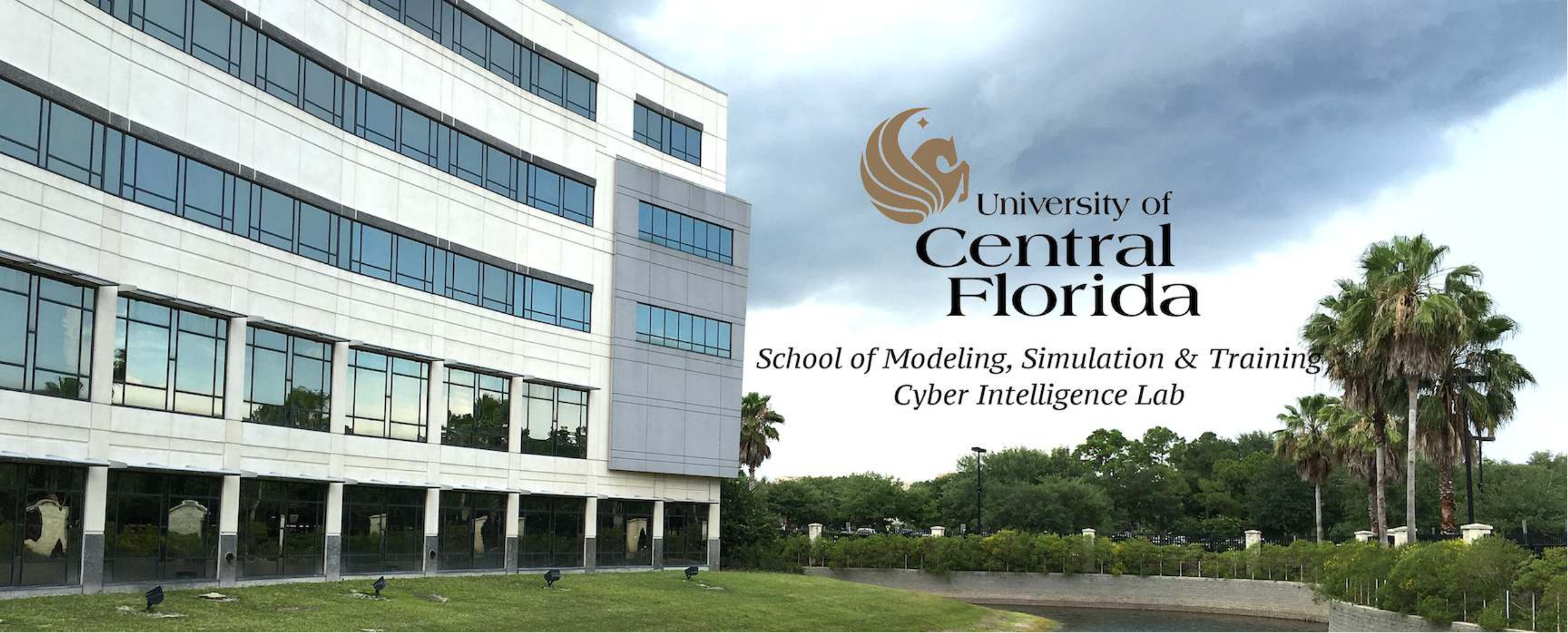
NSF LIKES Workshop hosted by Dr. Chung (second from left)



NSF Workshop on Curricular Developments for Computing in Context chaired by Dr. Chung (third from right)



Project team (funded by DARPA SocialSim program) led by Dr. Wingyan Chung (3rd from left on 1st row)



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