## MINA SAMUEL GUIRGUIS

601 University Drive, San Marcos, TX 78666

msg@txstate.edu — mina@blocmmount.com - (617) 817-4947 - http://cs.txstat EDUCATION	e.edu/~mgo5
Ph.D. in Computer Science, Boston University, USA	January 2007
M.A. in Computer Science, Boston University, USA	January 2005
B.Sc. in Computer Science and Automatic Control, Alexandria University, Egypt	June 1999
ACADEMIC APPOINTMENTS	
<b>Professor</b> , Computer Science Department, Texas State University	9/2018 - present
Senior Research Fellow, LBJ Institute for STEM Education and Research, Texas State	9/2015 - 8/2018
Associate Professor, Computer Science Department, Texas State University	9/2012 - 8/2018
Visiting Scholar, DHS CREATE, University of Southern California	6/2016 - 8/2016
Visiting Associate Professor, Electrical and Computer Engineering, UT Austin	9/2014 - 5/2015
Assistant Professor, Computer Science Department, Texas State	9/2006 - 8/2012
Research Fellow, Computer Science Department, Boston University	5/2002 - 8/2006
<b>Teaching Fellow</b> , Computer Science Department, Boston University PROFESSIONAL APPOINTMENTS	1/2001 - 5/2002
Blocmount, Corp., Founder, San Antonio, Texas, USA	9/2022 - present
Air Force Research Laboratory, Contractor, Rome, New York, USA	7/2013 - 10/2013
Air Force Research Laboratory, VFRP Fellow, Rome, New York, USA	Summer 2012
Fortress Technologies, Research Intern, Westford, Massachusetts, USA	6/2005 - 6/2006
Microsoft Corporation, Software Engineer (Intern), Redmond, Washington, USA	5/2001 - 8/2001
El Alamia, Sakhr Software Company, Software Engineer, Cairo, Egypt	8/1999 - 8/2000
Mitsubishi Electric Internet Services, Software Engineer (Intern), Birmingham, UK	6/1998 - 7/1998
International Computer Limited (ICL), Software Engineer (Intern), Alexandria, Egypt RESEARCH INTERESTS	7/1997
My research is broadly driven by the interplay of security, networks and stochastic control with in the areas of Cyber-Physical Systems, Communication Networks and Systems and Cloud Con- Selected Publications <sup>‡</sup>	n research contributions mputing.
<ul> <li>A. Tahsini, N. Dunstatter, M. Guirguis and C. Ahmed "DeepBLOC: A Framework for Sect Reinforcement Learning on Stochastic Games". In <i>Proceedings of the IEEE CNS</i>, Avignon,</li> <li>A. Anwar, G. Atia and M. Guirguis "A Game-Theoretic Framework for the Virtual Mac Problem". In <i>IEEE Transactions on Cloud Computing</i>, March 2019.</li> <li>A. Anwar, G. Atia and M. Guirguis "Its Time to Migrate! A Game-Theoretic Framework for I Cloud against Collocation Attacks". In <i>Proceedings of the IEEE CLOUD</i>, San Francisco, C.</li> <li>M. Guirguis, A. Tahsini, K. Siddique, C. Novoa, J. Moore, C. Julien and N. Dunstatter "B Approach to Orchestrate CPS against Cyber Attacks". In <i>Proceedings of the IEEE CNS</i>, Bd</li> <li>A. Schlenker, H. Xu, M. Guirguis, C. Kiekintveld, A. Sinha, M. Tambe, S. Sonya, D. Bald "Don't Bury your Head in Warnings: A Game-Theoretic Approach for Intelligent Allocation of the In</li></ul>	uring CPS through Deep France, June 2020. chines Migration Timing Protecting a Multi-tenant A, July 2018. LOC: A Game-Theoretic eijing, China, May 2018. leras, and N. Dunstatter of Cyber-security Alerts".

• T. Penner and M. Guirguis. "Combating the Bandits in the Cloud: A Moving Target Defense Approach". In *Proceedings of IEEE/ACM CCGrid*, Madrid, Spain, May 2017.

• V. Nguyen, M. Guirguis and G. Atia. "A Unifying Approach for the Identification of Application-driven Stealthy Attacks on Mobile CPS". In *Proceedings of Allerton*, Monticello, IL, October 2014.

- Q. Gu and M. Guirguis. "Secure Mobile Cloud Computing and Security Issues". In B. Choi, K. Han and S. Song, editors, "High Performance Cloud Auditing and Applications", Chapter 3, Springer New York, 2014.
- M. Guirguis, R. Ogden, Z. Song, S. Thapa and Q. Gu. "Can You Help Me Run These Code Segments on Your Mobile Device?". In *Proceedings of IEEE Globecom*, Houston, Texas, December 2011.
- M. Guirguis, J. Valdez, B. Lababedi and J. Valdez. "Burn Before Reading: A Stealthy Framework for Combating Forensics Investigations". In *Proceedings of the APWG eCrime Researchers Summit*, Tacoma, WA, October 2009.
- M. Guirguis, A. Bestavros, I. Matta and Y. Zhang. "Reduction of Quality (RoQ) Attacks on Dynamic Load Balancers: Vulnerability Assessment and Design Tradeoffs". In *Proceedings of IEEE INFOCOM*, Anchorage, Alaska, May 2007.
- M. Guirguis, A. Bestavros, I. Matta and Y. Zhang. "Adversarial Exploits of End-Systems Adaptation Dynamics". *The Elsevier JPDC Journal, Volume 67, Issue 3*, March 2007.
- Y. Zhang, A. Bestavros, M. Guirguis, I. Matta and R. West. "Friendly Virtual Machines: Leveraging a Feedback-Control Model for Application Adaptation". In *Proceedings of ACM/USENIX VEE*, Chicago, IL, June 2005.
- M. Guirguis, A. Bestavros, I. Matta and Y. Zhang. "Reduction of Quality (RoQ) Attacks on Internet End-Systems". In *Proceedings of IEEE INFOCOM*, Miami, FL, March 2005.
- M. Guirguis, A. Bestavros and I. Matta. "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources". In *Proceedings of IEEE ICNP*, Berlin, Germany, October 2004.
- <sup>‡</sup> A complete list of publications and talks can be found at http://cs.txstate.edu/~mg65/

Selected Sponsored Research and Grants

US Department of Education (\$675,945)       9/2021 - 8/2024         Graduata Assistance in Areas of National Need - Computer and Information Sciences (Co-PI)       9/2022 - 8/2023         SBIR Phase I: A Game-Theoretic Technology for Protecting ICS against Cyber-Attacks (PI)       9/2022 - 8/2023         NSF CISE REU (\$355,073)       5/2018 - 4/2021         REU Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-PI)       1/2015 - 1/2020         NSF CISE (\$15,000,000)       1/2015 - 1/2020         To reas State STEM Rising Stars (Co-PI)       1/2012 - 1/2018         NSF CAREER (\$458,000)       1/2012 - 1/2018         CAREER (\$458,000)       1/2012 - 1/2018         CAREER (\$458,000)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       6/2012 - 6/2016         NSF CISE REU co-funded by the DoD (\$339,000)       6/2012 - 6/2016         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVIED TALES AND SEMINABS		
Graduate Assistance in Areas of National Need - Computer and Information Sciences (Co-PI) 9/2022 - 8/2023 SBIR Phase I: A Game-Theoretic Technology for Protecting ICS against Cyber-Attacks (PI) NSF CISE REU (\$359,000) REU Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-PI) NSF IUSE (\$1,500,000) Toxas State STEM Rising Stars (Co-PI) NSF CNS SaTC (\$89,044) 10/2018 - 9/2019 SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI) NSF CAREER (\$456,000) CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI) DHS SRT (\$456,000) A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI) NSF CISE REU co-funded by the DoD (\$339,000) REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI) NSF S-STEM (\$600,000) 6/2012 - 5/2017 REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI) NSF S-STEM (\$600,000) 6/2012 - 6/2016 SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel) IEEE Foundation (\$21,450) Air Force Research Laboratory (\$7,000) 9/2013 - 10/2013 Scure Collaborative Computing in Mobile Clouds (PI) Air Force Research Laboratory (\$11,000) 9/2012 - 12/2012 Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI) SELECTED INVITED TALKS AND SEMIXABS • "Protecting our Cyber Infrastructure through Security Games" • UT Austin (Strauss center), Campus Security and Life Safety • UT Austin (Strauss center), Campus Security Games" • UT Austin (Strauss Centring, Cyber-Shysical Systems (CPS)" • USC, UT El Paso, ODU, UCP, TAMU, UT Austin • "Identifying Framework for Identifying Stealthy Attacks on CPS" • USC, UT El Paso, ODU, UCP, TAMU, UT Austin • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY * 7/2013 • "Scuring Mobile CPS against Stealthy Attacks on Internet Resources", Micros	US Department of Education (\$675,945)	9/2021 - 8/2024
NSF SBIR Phase 1 (\$255,973) SBR Phase 1: A Game-Theoretic Technology for Protecting ICS against Cyber-Attacks (PI) NSF CISE REU (\$359,000) REU Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-PI) NSF IUSE (\$1,500,000) Texas State STEM Rising Stars (Co-PI) NSF CONS SATC (\$89,044) ID/2018 - 9/2019 SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI) NSF CAREER (\$458,000) CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI) DHS STR (\$45,000) NSF CISE REU co-funded by the DoD (\$339,000) REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI) NSF STEM (\$600,000) SaTC: STEM (\$600,000) (6/2012 - 6/2016 SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel) IEEE Foundation (\$21,450) % A Game Chaboratory (\$7,000) Secure Collaborative Computing in Mobile Clouds (PI) Air Force Research Laboratory (\$1,000) Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI) SELECTED INVITED TALKS AND SEMINARS * "Protecting our Cyber Infrastructure through Security Games" * "Protecting our Cyber Infrastructure through Security Games" * U/2020 - 5/2017 * Texas State Ph.D. Seminar, Cyber Son Antonio AirForce Research Laboratory, (\$1,000) * A Unifying Framework for Identifying Stealthy Attacks on CPS" * U/2014 - 6/2016 * Toxas (Status Conduction Mathag): Securing Cyber-Physical Systems (CPS)* * Toxas State Ph.D. Seminar, Cyber San Antonio AirForce Research Laboratory, Rome, NY * 7/2014 * Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY * 7/2014 * Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY * 7/2014 * Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY * 7/2014 * Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY * 7/2014 * Collaborative Computing in Mobile	Graduate Assistance in Areas of National Need - Computer and Information Sciences (Co-PI)	
SBIR Phase 1: A Game-Theoretic Technology for Protecting ICS against Cyber-Attacks (P1)         NSF CISE REU (\$359,000)       5/2018 - 4/2021         REU Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-PI)       1/2015 - 1/2020         Texas State STEM Rising Stars (Co-PI)       1/2015 - 1/2020         NSF CNS SATC (\$89,044)       10/2018 - 9/2019         SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI)       1/2012 - 12/2018         NSF CISE REU (\$458,000)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       6/2012 - 5/2017         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       6/2012 - 6/2016         SF S-STEM (\$600,000)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       8/2014 - 5/2010         Air Force Research Laboratory (\$1,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SetLCED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"<	NSF SBIR Phase I ( $\$255,973$ )	9/2022 - 8/2023
NSF CISE REU (\$359,000)       5/2018 - 4/2021         REU Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-PI)       1/2015 - 1/2020         Texas State STEM Rising Stars (Co-PI)       10/2018 - 9/2019         SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI)       1/2012 - 12/2018         CAREER (\$45,000)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       3/2017 - 3/2018         NSF CISE REU co-funded by the DoD (\$339,000)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2017         "Making" the World a Better Place (Co-PI)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 5/2020         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELETED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2014 - 6/2016         • SULT Austin (Strauss center), Campus Security Games"       1/2012 - 6/2010         • Curt Austin Guadamatis Court	SBIR Phase I: A Game-Theoretic Technology for Protecting ICS against Cyber-Attacks (PI)	F 10010 4 10001
REC Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-P1)         1/2015 - 1/2020         Texas State STEM Rising Stars (Co-PI)         NSF CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI)         NSF CAREER (\$455,000)         CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI)         DHS SRT (\$45,000)         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)         NSF CSE REU co-funded by the DO (\$339,000)         STEM (\$600,000)         SP STEM (\$600,000)         STEM (\$600,000)         Setter (\$2012 - 6/2016         SP STEM (\$600,000)         Setter (\$2000)         Setter (\$2000         Setter (\$2000)         Setter (\$2000         Setter (\$2000         Se	NSF CISE REU (\$359,000)	5/2018 - 4/2021
INSP 105D (§1,300,000)       1/2015 - 1/2020         Texas State STEM Rising Stars (Co-PI)       10/2018 - 9/2019         SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI)       1/2012 - 12/2018         CAREER: §45,000)       1/2012 - 12/2018         CAREER: §45,000       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       3/2017 - 3/2018         NSF CISE REU co-funded by the DoD (§339,000)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         IEEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2013 - 10/2013         Science Collaborative Computing in Mobile Clouds (PI)       9/2013 - 10/2013         Air Force Research Laboratory (\$1,000)       9/2013 - 10/2013         Secure Collaborative Computing Tools for the Android Platform (PI)       9/2017 - 10/2018         SELCTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security Games"       1/2020 - 5/2020         • Collaborative Computing in Mob	REU Site: Research Experience for Undergraduates in Smart & Connected Communities (Co-I	1/2015 1/2020
Texas State 91EM (King Stats (Co-FI)       10/2018 - 9/2019         SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI)       1/2012 - 12/2018         NSF CAREER: (\$45,000)       1/2012 - 12/2018         CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI)       3/2017 - 3/2018         DHS SRT (\$45,000)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       6/2012 - 5/2017         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       8/2014 - 5/2013         Air Force Research Laboratory (\$1,000)       9/2013 - 10/2013         Scence Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       5         SELECTED INVITED TALKS AND SEMINARS       10/2014 - 6/2016         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security Games"       1/2020 - 5/2020         • Undifying Franework for Identifying Ste	$\mathbf{NSF} \mathbf{IUSE} (51, 500, 000)$	1/2015 - 1/2020
NSF CNS 5aTC (\$65,947)       10/2018 - 9/2019         SaTC: CORE: Small: Collaborative: CPS ACTS: Orchestrating CPS with Action Blocks (PI)       1/2012 - 12/2018         NSF CAREER (\$458,000)       1/2012 - 12/2018         CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI)       3/2017 - 3/2018         DHS SRT (\$45,000)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       6/2012 - 5/2017         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2017         IEEE Foundation (\$21,450)       8/2014 - 5/2015       *Making" the World a Better Place (Co-PI)         Air Force Research Laboratory (\$1,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 5/2020         - UT Austin (Strauss center), Campus Security and Life Safety       1/2020 - 5/2020         - UT Austin (Strauss center), Campus Security and Life Safety       9/2017 - 10/2018         - Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         - USC, UT EI Paso, ODU, UCP, TAMU, UT Austin       • "Collaborative Computing in Mobile C	1exas State S1EM Rising Stars (Co-P1)	10/2018 0/2010
<ul> <li>Instr. Conter. Small: Control and Version of CPS ACTS: Orchestrating CPS with Action Blocks (PI)</li> <li>I/2012 - 12/2018</li> <li>CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI)</li> <li>DHS SRT (\$45,000)</li> <li>A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)</li> <li>NSF CISE REU co-funded by the DoD (\$339,000)</li> <li>6/2012 - 5/2017</li> <li>REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)</li> <li>NSF S-STEM (\$600,000)</li> <li>6/2012 - 6/2016</li> <li>SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)</li> <li>IEEE Foundation (\$21,450)</li> <li>"Making" the World a Better Place (Co-PI)</li> <li>Air Force Research Laboratory (\$7,000)</li> <li>Secure Collaborative Computing in Mobile Clouds (PI)</li> <li>Air Force Research Laboratory (\$11,000)</li> <li>Secure Collaborative Computing in Mobile Clouds (PI)</li> <li>Secure Collaborative Computing in Mobile Clouds (PI)</li> <li>Secure Diversion making: Security Games"</li> <li>"Protecting our Cyber Infrastructure through Security Games"</li> <li>"Protecting our Cyber Infrastructure through Security and Life Safety</li> <li>"Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"</li> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>UNGUAL - 6/2016</li> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>"(2014 - 6/2016</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Zizoli Stealthy Attacks", NSF US/Middle East Workshop, Istanbu</li></ul>	NSF CINS Sale (569,044) Sale CODE: Small, Collaborative, CDS ACTS, Orchestrating CDS with Action Diselss (DI)	10/2018 - 9/2019
CAREER: Securing Mobile Cyber-Physical Systems Against Stealthy Attacks (PI)       1/2012 - 12/2018         DHS SRT (\$45,000)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       6/2012 - 5/2017         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         IEEE Foundation (\$21,450)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2013 - 10/2013         Air Force Research Laboratory (\$7,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       9/2017 - 10/2018         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2017 - 10/2018         • Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       * 4/2014         • "Use, UT El Paso, ODU, UCF, TAMU, UT Austin       • 10/2014 - 6/2016         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       •	Salo: CORE: Small: Conaborative: CFS AC15: Orchestrating CFS with Action blocks (FI)	1/2012 12/2018
OHNELEN: Secting Mobile Cybel+ hysical Systems Against Stearthy Attacks (F1)       3/2017 - 3/2018         A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI)       6/2012 - 5/2017         NSF CISE REU co-funded by the DoD (\$339,000)       6/2012 - 5/2017         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         IEEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       8/2014 - 5/2013         Air Force Research Laboratory (\$7,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • Taxas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • USC, UT EI Paso, ODU, UCF, TAMU, UT Austin       • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Gollaborativ	NSF CAREER (\$490,000) CAREER, Securing Mobile Cyber Division Systems Assingt Stanthy Attacks (DI)	1/2012 - 12/2018
A Game-Theoretical Approach to Allocating Cybersecurity Analysts to Cyber Alerts (PI) NSF CISE REU co-funded by the DoD (\$339,000) 6/2012 - 5/2017 REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI) NSF S-STEM (\$600,000) 6/2012 - 6/2016 SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel) 8/2014 - 5/2015 "Making" the World a Better Place (Co-PI) Air Force Research Laboratory (\$7,000) 9/2013 - 10/2013 Secure Collaborative Computing in Mobile Clouds (PI) Air Force Research Laboratory (\$11,000) 9/2012 - 12/2012 Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI) SELECTED INVITED TALKS AND SEMINARS • "Protecting our Cyber Infrastructure through Security Games" 1/2020 - 5/2020 - UT Austin (Strauss center), Campus Security Games" 1/2020 - 5/2020 - UT Austin (Strauss center), Campus Security Games" 1/2020 - 5/2020 - UT Austin (Strauss center), Campus Security and Life Safety • "Intelligent Decision making: Sceuring Cyber-Physical Systems (CPS)" 9/2017 - 10/2018 - Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council • "A Unifying Exaploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY 7/2014 • "Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY 7/2013 • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey 6/2012 • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research 9/2004 SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES • NSF Panelist in various programs. • Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018. • Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017. • Local Chair, MobiCASE, Austin, TX, November 2014 • Program Co-chair on the Second International Workshop on Inte	DUS SPT (\$45,000)	2/2017 2/2018
A Game Approach by the Dol (\$339,000)       6/2012 - 5/2017         REU Site: Research Experience for Undergraduates in Mobile Cyber-Physical Systems (PI)       6/2012 - 6/2016         NSF S-STEM (\$600,000)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         IEEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       8/2013 - 10/2013         Air Force Research Laboratory (\$1,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 5/2020         Air Force Research Laboratory (\$11,000)       9/2017 - 10/2018         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security Cames (CPS)"       9/2017 - 10/2018         • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • UT El Paso, ODU, UCF, TAMU, UT Austin       "Geouring Mobile CPS against Stealthy Attacks", NF FORE Research Laboratory, Rome, NY       7/2013         • "Geuring Mobile CPS against Stealthy Attacks", NF FORE Research Laboratory, Rome, NY       7/2014 <t< td=""><td>A Came Theoretical Approach to Allocating Cybergacunity Analysis to Cyber Alerta (DI)</td><td>3/2017 - 3/2018</td></t<>	A Came Theoretical Approach to Allocating Cybergacunity Analysis to Cyber Alerta (DI)	3/2017 - 3/2018
REUSTRICE Communication (2012)       6/2012 - 6/2016         REUSTRICE Communication (2014)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       6/2012 - 6/2016         IEEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       8/2013 - 10/2013         Air Force Research Laboratory (\$7,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       50/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2017 - 10/2018         • Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Genering Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012	NSE CISE BELL on funded by the DoD (\$330,000)	6/2012 5/2017
NSF S-STEM (\$600,00)       6/2012 - 6/2016         SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         IBEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2013 - 10/2013         Air Force Research Laboratory (\$7,000)       9/2012 - 12/2012         Control Theoretic Adaptive Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2017 - 10/2018         • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2018         • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks," NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYMERCISTIC ACTIVITIES       NSF Pa	REU Site: Research Experience for Undergraduates in Mobile Cyber Physical Systems (PI)	0/2012 - 5/2017
SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering and Computer Science (Senior Personnel)       8/2014 - 5/2015         IEEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2013 - 10/2013         Air Force Research Laboratory (\$7,000)       9/2012 - 12/2012         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security and Life Safety       9/2017 - 10/2018         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2014 - 6/2016         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       10/2014 - 6/2016         • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       NSF Panelist in	NSE S STEM (\$600.000)	6/2012 6/2016
Strince (Senior Personnel)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2013 - 10/2013         Air Force Research Laboratory (\$7,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2017 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security and Life Safety       9/2017 - 10/2018         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2017 - 10/2018         • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       "10/2014 - 6/2018         • "Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       NSF Panelist in various programs.         • Symposium Co-Chair, Co	SPARK: Increasing the Recruitment and Retention of Female Undergraduates in Engineering	0/2012 = 0/2010
IBEE Foundation (\$21,450)       8/2014 - 5/2015         "Making" the World a Better Place (Co-PI)       9/2013 - 10/2013         Air Force Research Laboratory (\$7,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2017 - 10/2018         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security and Life Safety       9/2017 - 10/2018         • "Austin (Strauss center), Campus Security and Life Safety       9/2017 - 10/2018         • "Austin (Strauss center), Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • "A Unifying Framework for Identifying Stealthy Attacks on CPS"         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       • NSF Panelist in various programs.       • Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.       • Chair, Thir	Science (Senior Personnel)	ind Computer
"Making" the World a Better Place (Co-PI)       6/2011       6/2011       6/2011       6/2011         Air Force Research Laboratory (\$7,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2012 - 12/2012         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • "Protexting our Cyber Infrastructure through Security and Life Safety       9/2017 - 10/2018         • "Exeas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • (A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • "KAC, UT El Paso, ODU, UCF, TAMU, UT Austin       • "Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       NSF Panelist in various programs.       Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.         • Chair, Thir	IEEE Foundation (\$21,450)	8/2014 - 5/2015
Air Force Research Laboratory (\$7,000)       9/2013 - 10/2013         Secure Collaborative Computing in Mobile Clouds (PI)       9/2012 - 12/2012         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       9/2013 - 10/2013         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security and Life Safety       9/2017 - 10/2018         • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       9/2014 - 6/2016         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       10/2014 - 6/2016         • "Gollaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       NSF Panelist in various programs.       Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.         • Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.       Local Chair, MobiCASE, Austin, TX, November 2014         • Program Co-chair on the Second Internation	"Making" the World a Better Place (Co-PI)	0/2014 - 0/2010
Secure Collaborative Computing in Mobile Clouds (PI)       5/2010 - 10/2010         Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)       5         SELECTED INVITED TALKS AND SEMINARS       1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security and Life Safety       9/2017 - 10/2018         • "Protecting our Cyber Infrastructure through Security and Life Safety       9/2017 - 10/2018         • "Taxas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • (A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       • NSF Panelist in various programs.       • Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.         • Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.       • Local Chair, MobiCASE, Austin, TX, November 2014	Air Force Research Laboratory (\$7,000)	9/2013 - 10/2013
Air Force Research Laboratory (\$11,000)       9/2012 - 12/2012         Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)         SELECTED INVITED TALKS AND SEMINARS         • "Protecting our Cyber Infrastructure through Security Games"       1/2020 - 5/2020         - UT Austin (Strauss center), Campus Security and Life Safety         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2017 - 10/2018         - Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • (A Unifying Framework for Identifying Stealthy Attacks on CPS)"       10/2014 - 6/2016         • USC, UT El Paso, ODU, UCF, TAMU, UT Austin       • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES       • NSF Panelist in various programs.       • Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.         • Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.       • Local Chair, MobiCASE, Austin, TX, November 2014         • Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.       • Program Co-chair on	Secure Collaborative Computing in Mobile Clouds (PI)	5/2010 - 10/2010
Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI) SELECTED INVITED TALKS AND SEMINARS	Air Force Research Laboratory (\$11,000)	9/2012 - 12/2012
SELECTED INVITED TALKS AND SEMINARS         1/2020 - 5/2020         • "Protecting our Cyber Infrastructure through Security Games"         1/2020 - 5/2020         • UT Austin (Strauss center), Campus Security and Life Safety         • "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"       9/2017 - 10/2018         • Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council       • "A Unifying Framework for Identifying Stealthy Attacks on CPS"       10/2014 - 6/2016         • "USC, UT El Paso, ODU, UCF, TAMU, UT Austin       • "Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY       7/2013         • "Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY       7/2013         • "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey       6/2012         • "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research       9/2004         SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES         • NSF Panelist in various programs.       • Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.         • Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.       • Local Chair, MobiCASE, Austin, TX, November 2014         • Program Co-chair on the Second International Worksh	Control Theoretic Adaptive Monitoring Tools for the Android Platform (PI)	0/2012 12/2012
<ul> <li>"Protecting our Cyber Infrastructure through Security Games"</li> <li>UT Austin (Strauss center), Campus Security and Life Safety</li> <li>"Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"</li> <li>9/2017 - 10/2018</li> <li>Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council</li> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>USC, UT El Paso, ODU, UCF, TAMU, UT Austin</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>"Z014</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Z013</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>9/2004</li> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	Selected Invited Talks and Seminars	
<ul> <li>Flottering our Cyber infrastructure timologin Security dataes</li> <li>UT Austin (Strauss center), Campus Security and Life Safety</li> <li>"Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"</li> <li>9/2017 - 10/2018</li> <li>Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council</li> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>USC, UT El Paso, ODU, UCF, TAMU, UT Austin</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>7/2014</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Zoural device of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "Protecting our Cyber Infrastructure through Security Cames"	$\frac{1}{2020} = 5/2020$
<ul> <li>"Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"</li> <li>"Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"</li> <li>"Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council</li> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>USC, UT El Paso, ODU, UCF, TAMU, UT Austin</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Zotative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	- UT Austin (Strauss center) Campus Security and Life Safety	1/2020 0/2020
<ul> <li>Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Council</li> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>USC, UT El Paso, ODU, UCF, TAMU, UT Austin</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "Intelligent Decision making: Securing Cyber-Physical Systems (CPS)"	9/2017 - 10/2018
<ul> <li>"A Unifying Framework for Identifying Stealthy Attacks on CPS"</li> <li>"USC, UT El Paso, ODU, UCF, TAMU, UT Austin</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>9/2004</li> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	- Texas State Ph.D. Seminar, Cyber San Antonio AirForce Meeting, Cybersecurity Industry Co	ouncil
<ul> <li>USC, UT El Paso, ODU, UCF, TAMU, UT Austin</li> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY 7/2014</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY 7/2013</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey 6/2012</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research 9/2004</li> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "A Unifying Framework for Identifying Stealthy Attacks on CPS"	10/2014 - 6/2016
<ul> <li>"Identifying Exploits on Coordination Methods between UAVs", Air Force Research Laboratory, Rome, NY</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>9/2004</li> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	- USC, UT El Paso, ODU, UCF, TAMU, UT Austin	10,2011 0,2010
<ul> <li>"Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY</li> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "Identifying Exploits on Coordination Methods between UAVs". Air Force Research Laboratory.	Rome, NY 7/2014
<ul> <li>"Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Turkey</li> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "Collaborative Computing in Mobile Clouds", Air Force Research Laboratory, Rome, NY	7/2013
<ul> <li>"Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Research</li> <li><u>9/2004</u></li> <li><u>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</u></li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "Securing Mobile CPS against Stealthy Attacks", NSF US/Middle East Workshop, Istanbul, Tur	kev 6/2012
<ul> <li>SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES</li> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	• "Exploiting the Transients of Adaptation for RoQ Attacks on Internet Resources", Microsoft Res	search $9/2004$
<ul> <li>NSF Panelist in various programs.</li> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	SELECTED PROFESSIONAL AND SYNERGISTIC ACTIVITIES	1
<ul> <li>Symposium Co-Chair, Communication and Information System Security Symposium – IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	NSF Panelist in various programs	
<ul> <li>Symposium Co-Chair, Communication and information System Security Symposium "IEEE Globecom 2018.</li> <li>Chair, Third National Workshop for REU Research in Networking and Systems, Santa Clara, CA, January 2017.</li> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	<ul> <li>Nor Tailenst in various programs.</li> <li>Symposium Co-Chair Communication and Information System Security Symposium – IEEE Cl</li> </ul>	obecom 2018
<ul> <li>Chair, MobiCASE, Austin, TX, November 2014</li> <li>Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.</li> </ul>	Chair Third National Workshop for REU Research in Networking and Systems Santa Clara C	A January 2017
• Program Co-chair on the Second International Workshop on Internet of Things, Miami, FL, October 2014.	<ul> <li>Local Chair, MobiCASE, Austin, TX, November 2014</li> </ul>	5000000 2017.
- restances chain on the second international monomorp on internet of rinings, whatin, i. B. Second 2014.	• Program Co-chair on the Second International Workshop on Internet of Things Miami FL Oct	ober 2014.
• Editorial Board Member for the IARIA International Journal on Advances in Networks and Services	• Editorial Board Member for the IARIA International Journal on Advances in Networks and Ser	vices

• Served/Serving on the Technical Program Committee (TPC) in many International conferences.

• Developed and delivered workshops, lectures and course modules to introduce STEM students to Computer Science. MASTERS THESIS ADVISING<sup>\*</sup>

Alireza Tahsini, BLOC: A Game Theoretic Approach to Orchestrate CPS Against Cyber Attacks	7/2019
Noah Dunstatter, Solving Cyber Alert Allocation Markov Games with Deep Reinforcement Learning	5/2019
Terry Penner, Bandits in the Cloud: A Moving Target Defense Against Multi-Armed Bandit Attack Policies	5/2016

\* Partial list of students for whom I served as the main advisor in the past few years. SELECTED HONORS AND AWARDS

• Presidential Distinction Award for Excellence in Teaching, College of Science and Engineering,	8/2020
• College Achievement Award for the Presidential Award for Excellence in Scholarly/Creative Activities,	8/2015
• Recipient of the College of Science and Engineering Excellence in Scholarly Activities Award	9/2013
• Recipient of the NSF Faculty Early Career Development (CAREER)	1/2012
• Recipient of the Outstanding Teaching Fellow Award, Boston University	4/2002