
EDUCATION	The University of Texas at Dallas, Richardson, Texas - Ph.D. in Software Engineering, GPA 3.923 <i>Dissertation: "Vulnerability Trends in IoT Devices and New Sensor-Assisted Security Protections"</i> <i>Committee:</i> Dr. Alvaro A. Cardenas (chair), Dr. Ryan P. McMahan, Dr. B. Prabhakaran, Dr. Bhavani Thuraisingham May 2018
	The University of Texas at Dallas, Richardson, Texas - M.S. in Computer Science with Major in Software Engineering, GPA 3.888 Aug. 2008 – May 2010 May 2010
	The University of Texas at Dallas, Richardson, Texas - B.S. in Software Engineering with Minor in Music, <i>Magna Cum Laude & Major Honors</i> , GPA 3.812 <i>Certificate in Information Assurance</i> , Cyber Security Research & Education Institute; and <i>Fast-Track Program</i> Aug. 2005 – May 2009 May 2009
PROFESSIONAL EXPERIENCE	On Assignment at Toyota Motor North America (TMNA), Plano, Texas 2019 – present <i>Senior Security Engineer – Application Security Team (06/2022 – present)</i> • <i>Employer:</i> TOYOTA TSUSHO SYSTEMS US, Inc. - Conduct offensive security assessments to minimize attack surface on enterprise; provide technical guidance in application security - Perform penetration tests on web & mobile apps used by Toyota/Lexus customers & dealerships; lead teams to fix vulnerabilities - Provide support to Toyota's Vulnerability Disclosure program <i>Red Team Consultant – Application Security Team (08/2019 – 05/2022)</i> • <i>Employer:</i> BlackBerry Corporation - Performed complex penetration tests on web & mobile apps used by customers of a Fortune 500 company (in automotive industry) - Produced detail-oriented, high-quality penetration test & threat modeling reports; led app teams to fix vulnerabilities identified - Provided support to client's bug bounty / coordinated disclosure program The University of Texas at Dallas, Richardson, Texas 2018 – 2020 <i>Adjunct Professor of Practice · Part-Time (01/2020 – 05/2020) & Invited Instructor (01/2019 – 05/2019)</i> - Taught graduate-level CS 6324: Information Security courses - Mentored & guided students to conduct security assessments on IoT devices & responsibly disclose discovered vulnerabilities - Designed course content, delivered lectures; supported students on security lab exercises and hands-on/research projects <i>Postdoctoral Research Associate (08/2018 – 06/2019)</i> - Systematically studied new unanticipated security threats that Internet of Things (IoT) devices pose to users - Planned, conducted, directed penetration tests on consumer IoT devices, software/firmware, networks The University of Texas at Dallas, Richardson, Texas 2013 – 2018 <i>Research Assistant (01/2014 – 05/2018) & Teaching Assistant (01/2013 – 05/2015)</i> - Conducted research on attack detection mechanisms for embedded devices in cyber-physical systems (CPS) - Performed security assessments on IoT devices (e.g., consumer drones, smart children toys) & responsibly disclosed vulnerabilities - Assisted with teaching and grading software engineering/computer science graduate & undergraduate level courses Facebook, Menlo Park, California 2016 <i>Security Engineering Intern – Product Security Team (06/2016 – 08/2016)</i> - Developed internal security tools to drive internal security and privacy initiatives - Directed interactions with product teams & external researchers to fix vulnerabilities reported via Facebook's Bug Bounty program Samsung Research America, Richardson, Texas 2013 <i>Engineering Intern – Server Security Team (07/2013 – 12/2013)</i> - Conducted research on hardware-based solutions (e.g., Trusted Platform Module) to secure cutting-edge technology
HONORS / AWARDS	2020 - Recognized with BlackBerry's Silver STAR Award (for outstanding performance & value brought to the company) - Recognized as BlackBerry/Cylance employee of the month on Toyota's Cyber Protection team (for exceeding expectations)

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- AWARDS (CONT.)**
- 2018 - Won 1st place, Graduate Poster Competition @ Women in Cyber-Security conference (WiCyS'18)
 - 2017 - Selected to serve in the IEEE Security & Privacy Student Program Committee (2017 – 2019)
 - 2016 - Recipient of a Google Internet of Things (IoT) Technology Research Award
 - 2015 - Won 2nd place, ACM Student Research Competition @ GHC'15 (sponsored by Microsoft)
 - 2014 - Won multiple awards at Debug DC Hackathon, San Francisco, CA (by FWD.us & Hack/Founders)
 - 2013 - Received honorable mention at FWD.us DREAMer Hackathon @ LinkedIn HQ, Mountain View, CA
- Best Demonstration Paper Award @ AAMAS'13
 - 2012 - Best Overall Paper Award at SpringSim'12, Society for Modeling and Simulation
- Best Paper Award at Agent-Directed Simulation (ADS'12) at SpringSim'12
 - 2009 - Best Senior Design Project Award (sponsored by Tektronix Communications)
- Degree Honors, Department of Computer Science, The University of Texas at Dallas
- Information Assurance Certificate, Cyber Security Research & Education Institute, UT Dallas
 - 2008 - Selected to the UTD Computer Science Fast-Track Program (to start M.S. during B.S. degree)
 - 2006 - Dean's List, The University of Texas at Dallas (2006 & 2007)
 - 2005 - Valedictorian, Summa Cum Laude Diploma at The Jack E. Singley Academy, Irving, Texas
 - 2003 - Texas Aerospace Scholar, NASA Johnson Space Center (selected to participate in a yearlong program)
 - 2002 - Celebrations of Educational Excellence, Medallion & congratulatory letter from former Texas Governor Rick Perry
- PUBLICATIONS**
- [16] J. Valente, M. Wynn, and A. Cardenas (2019). Stealing, Spying, and Abusing: Consequences of Attacks to IoT Devices. *IEEE Security & Privacy*, 17(5), 10-21.
 - [15] J. Valente, K. Bahirat, K. Venechanos, A. Cardenas, and P. Balakrishnan (2019). Improving the Security of Visual Challenges. *ACM Transactions on Cyber-Physical Systems (TCPS)*, 3(3), 34.
 - [14] J. Valente, K. Koneru, and A. Cardenas (2019). Privacy and Security in Internet-Connected Cameras. *IEEE International Congress on Internet of Things (ICIOT'19)*, Milan, Italy.
 - [13] J. Giraldo, D. Urbina, A. Cardenas, J. Valente, M. Faisal, J. Ruths, N. O. Tippenhauer, H. Sandberg, and R. Candell (2018). A Survey of Process-Aware Attack Detection in Cyber-Physical Systems. *ACM Computing Surveys*, 51(4), 76.
 - [12] J. Valente (2018). Vulnerability Trends in IoT Devices and New Sensor-Assisted Security Protections. Ph.D. dissertation. Erik Jonsson School of Engineering and Computer Science. The University of Texas at Dallas.
 - [11] J. Valente and A. Cardenas (2017). Understanding Security Threats in Consumer Drones Through the Lens of the Discovery Quadcopter Family. In *Proceedings of ACM Workshop on Internet of Things Security and Privacy (IoT S&P'17) at CCS'17*, Dallas, Texas.
 - [10] J. Valente and A. Cardenas (2017). Security & Privacy of Smart Toys. In *Proceedings of 1st ACM Workshop on Internet of Things Security and Privacy (IoT S&P'17) at CCS'17*, Dallas, Texas.
 - [9] J. Valente and A. Cardenas (2017). Remote Proofs of Video Freshness for Public Spaces. In *Proceedings of 3rd ACM Workshop on Cyber-Physical Systems Security & Privacy (CPS-SPC'17)*, Dallas, Texas.
 - [8] D. Urbina, J. Giraldo, A. Cardenas, N. O. Tippenhauer, J. Valente, M. Faisal, J. Ruths, R. Candell, and H. Sandberg (2016). Limiting the Impact of Stealthy Attacks on Industrial Control Systems. In *Proceedings of the ACM Conference on Computer and Communications Security (CCS'16)*, Vienna, Austria. [Acceptance rate: 16.5%]
 - [7] D. Urbina, J. Giraldo, A. Cardenas, J. Valente, M. Faisal, N. O. Tippenhauer, J. Ruths, R. Candell, and H. Sandberg (2016). Survey and New Directions for Physics-Based Attack Detection in Control Systems. National Institute of Standards and Technology, NIST GCR 16-010, Technical Report.
 - [6] J. Valente and A. Cárdenas (2015). Using Visual Challenges to Verify the Integrity of Security Cameras. In *Proceedings of Annual Computer Security Applications Conference (ACSAC'15)*, Los Angeles, California. [Acceptance rate: 24.4%]

- [5] J. Valente, C. Barreto, and A. Cárdenas (2014). Cyber-Physical Systems Attestation. In *Proceedings of the IEEE Conference on Distributed Computing in Sensor Systems*, Marina Del Rey, California.
- [4] M. Al-Zinati, F. Araujo, D. Kuiper, J. Valente, and R. Wenkstern (2013). DIVAs 4.0: A Multi-Agent Based Simulation Framework. In *Proceedings of the 17th IEEE/ACM International Symposium on Distributed Simulation and Real Time Applications (DS-RT'13)*, Delft, Netherlands.
- [3] F. Araujo, J. Valente, M. Al-Zinati, D. Kuiper, and R. Wenkstern (2013). DIVAs 4.0: A Framework for the Development of Situated Multi-Agent Based Simulation Systems. In *Proceedings of the 12th Conference on Autonomous Agents and Multiagent Systems*, Saint Paul, Minnesota. **Best Demo Award in AAMAS'13.**
- [2] J. Valente, F. Araujo, and R. Wenkstern (2012). On Modeling and Verification of Agent-Based Traffic Simulation Properties in Alloy. *Journal of Agent Technologies and Systems (IJATS)*, 4(4), 38-60.
- [1] F. Araujo, J. Valente, and R. Wenkstern (2012). Modeling Agent-Based Traffic Simulation Properties in Alloy. In *Proceedings of the 2012 Symposium on Agent Directed Simulation at SpringSim'12*, Orlando, Florida. **Best Paper Award in ADS'12 and Best Overall Paper Award at SpringSim'12.**

RESEARCH COMPETITIONS “The Secret Life of IoT Devices: A Security Analysis.” Women in Cyber-Security conference (WiCyS'18), Chicago, Illinois. March 23-24, 2018. • AWARD: Won 1st place, Graduate Poster Competition

“Trustworthy Attestation of Untrusted Sensors.” Grace Hopper Conference (GHC'15), Houston, Texas. October 14-16, 2015. [Acceptance rate to participate in the competition: 17.7%] • AWARD: Won 2nd place, ACM Student Research Competition

SECURITY Discovered & disclosed Common Vulnerabilities and Exposures (CVEs) in IoT devices:

ISSUES FOUND / ASSIGNED	- CVE-2019-12509 (<i>MIPC app used by LeFun baby monitor camera</i>)	Aug 2018
	- CVE-2017-8865, CVE-2017-8866, and CVE-2017-8867 (<i>CogniToys Dino smart children toy</i>)	Mar 2017
CVES	- CVE-2017-3209 (<i>Discovery consumer drones</i>) • CERT/CC Note VU#334207	Feb 2017
	- CVE-2015-8286, and CVE-2015-8287 (<i>Swann NVW-470 surveillance systems</i>) • CERT/CC VU#923388	Aug 2015

TEACHING **INSTRUCTOR**, The University of Texas at Dallas

- CS 6324: Information Security (29 graduate & 13 undergraduate students) • [Instructor Evaluation: 4.8/5.0] Spring 2020

- CS 6324: Information Security (19 graduate & 20 undergraduate students) • [Instructor Evaluation: 4.9/5.0] Spring 2019

TEACHING ASSISTANT, The University of Texas at Dallas

Graded assignments, provided detailed feedback, and worked one-on-one with students

- CS 6301: Developing & Securing the Cloud (66 graduate students)	Spring 2015
- CS 1136: Computer Science Laboratory (13 undergraduate students)	Summer 2014
- CS 1336: Programming Fundamentals (22 undergraduate students)	Summer 2014
- CS 6364: Artificial Intelligence (76 graduate students)	Spring 2013
- SE 3306: Foundations of Mathematics (54 undergraduate students)	Spring 2013

RESEARCH PROJECTS **Security Analysis of Internet of Things (IoT) devices** • Supported by AFOSR, NSF, LAS **Jun 2015 – Jun 2019**

Performed penetration tests on a variety of consumer IoT devices (e.g., surveillance systems, smart toys, consumer drones) focusing on their network communication to cloud/or app, network services, etc. Discovered various vulnerabilities leading to seven CVEs.

PUBLICATIONS: *IoT S&P'17* [10, 11], *ICIOT'19* [14] & *IEEE S&P'19* [16]; AWARD: 1st place, Poster Competition @ WiCyS'18

Visual-based Attestation for Security Cameras • Supported by AFOSR, NSF, LAS, NIST

Jan 2015 – May 2018

Our research introduces a new kind of attestation tailored specifically for sensing devices. Here, the verifier does not send the challenge directly to the prover. Instead, we modify the physical environment that the prover (i.e., sensor) is sensing on and verify that the expected changes reflect in the sensor readings.

PUBLICATIONS: *ACSAC'15* [6], *CPS-SPC'17* [9], & *TCPS'19* [15]; AWARD: 2nd place, ACM Research Competition @ GHC'15

DIVAs 4.0 – A framework for developing multi-agent simulation tools

Jan 2012 – May 2013

Reengineered DIVAs, a framework of autonomous agents situated in open environments that perceive surroundings through multiple senses. Designed self-organizing strategies to decentralize the framework.

PUBLICATIONS: *Work accepted at AAMAS'13 [3] & DS-RT'13 [4]*; AWARD: *Best Demo Award @ AAMAS'13*

MATISSE – An agent-based traffic simulation system

Jun 2011 – May 2013

Specified and verified MATISSE's traffic models using the Alloy modeling language based on set theory and first order logic.

Formalized static properties of the system and dynamic properties using execution traces.

PUBLICATIONS: *Work accepted at ADS'12 [1] & IJATS'12 [2]*; AWARDS: *Best Paper & Best Overall Paper Award*

INVITED TALKS

"Vulnerability Trends in IoT Devices & New Sensor-Assisted Security Protections"

Fall 2018

VENUE: Technical Luncheon Series @ Texas Instruments, Dallas, Texas

"Security & Privacy of Internet of Things (IoT) Devices"

Fall 2017

VENUE: IoT Conference @ UT Dallas (Sponsored by Microsoft)

PRESENTATIONS CONFERENCE & MISC. TALKS

- *Vulnerability Trends in IoT Devices*. Presented at Toyota Motor North America, Inc., Plano, Texas. February 20, 2020.

- *New Sensor-Assisted Security Protections & Security Analysis of Consumer IoT Devices*. Presented at IBM T.J. Watson Research Center, Yorktown Heights, New York. February 22, 2019.

- *Security Analysis of Consumer IoT Devices (Poster)*. Laboratory for Analytic Sciences (LAS) Research Symposium, Raleigh, North Carolina. December 12, 2018.

- *Remote Proofs of Video Freshness for Public Spaces*. 3rd ACM Workshop on Cyber-Physical Systems Security & Privacy (CPS-SPC'17) at CCS'17, Dallas, Texas. November 3, 2017.

- *Understanding Security Threats in Consumer Drones Through the Lens of the Discovery Quadcopter Family*. ACM Workshop on Internet of Things Security & Privacy (IoT S&P) at CCS'17, Dallas, Texas. November 3, 2017.

- *Security & Privacy of Smart Toys*. 1st ACM Workshop on Internet of Things Security and Privacy (IoT S&P'17) at CCS'17, Dallas, Texas. November 3, 2017.

- *Using Visual Challenges to Verify the Integrity of Security Cameras*. Annual Computer Security Applications Conference (ACSAC'15), Los Angeles, California. December 7–11, 2015.

- *Exploratory Analysis of Modbus and General IT Network Flows in a Water SCADA System*. Industrial Control System Security (ICSS) workshop during ACSAC'15, Los Angeles, California. December 8, 2015.

- *Cyber-Physical Systems Attestation*. Workshop on Cyber-Physical Systems Security (CPS-Sec 2014) at DCOSS'14, Marina Del Rey, California. May 28, 2014.

- *Improving the Trustworthiness of Embedded Devices in the Internet of Things*. Net-Centric Software & Systems Industry/University Cooperative Research Center (I/UCRC) Advisory Board Meeting, Grapevine, Texas. October 16, 2013.

- *Using Trusted Platform Module (TPM) to Protect Cryptographic Keys*. Presented at Samsung Research America – Dallas, Richardson, Texas. August, 2013.

- *Abstractions of Transportation Networks to Modeling Trustworthy Critical Infrastructures*. Trustworthy Cyber Infrastructure for the Power Grid (TCIPG'13) summer school, Saint Charles, Illinois. June 20, 2013.

INVITED GUEST LECTURES @ UT DALLAS

- *Information Security Through the Lens of the Internet of Things*

Fall 2018

COURSE: CS 4301 – Special Topics in CS: Survey of Cyber Security

- *Vulnerability Trends in Consumer Internet of Things (IoT)*

Fall 2018

COURSE: CS 6301 – Special Topics in CS: Security in the IoT

- *Responsible Disclosure of Vulnerabilities, Bug Bounty Programs, Requesting CVEs: An Overview*

Fall 2017

COURSE: CS 6301 – Special Topics in CS: CPS & IoT security

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- *Tutorial on Performing Vulnerability Assessment on IoT Devices* *Spring 2017 / 2018*
COURSE: CS 6324 – Information Security
 - *An Overview to Finding Vulnerabilities on Internet of Things (IoT) Devices* *Fall 2016*
COURSE: EMAC 4372 – Privacy in the Age of the IoT
 - *Tutorial on Creating Research Posters + Demo of our ACM Student Research Competition Poster* *Fall 2015*
COURSE: CS 7301 – Survey of Advanced Research in CS
 - *An Introduction to Trusted Computing / Towards Trustworthy Computing* *Spring 2014 / 2016*
COURSE: CS 6324 – Information Security
 - *Introduction to Trusted Network Connect (TNC) & Industrial Control Systems (ICS) Security* *Fall 2013*
COURSE: CS 6301 – Topics in CS: Security of Critical Infrastructures
 - *Introduction to Remote Attestation using Trusted Platform Module (TPM)* *Fall 2013*
COURSE: CS 6301 – Topics in CS: Security of Critical Infrastructures
 - *Graphs & Shortest-Path Algorithms* *Spring 2013*
COURSE: SE 3306 – Foundations of Mathematics
 - *An Introduction to UML 2.0: Objects and Classes* *Summer 2012*
COURSE: SE 6359 – Object-Oriented Analysis and Design

MEDIA

Forbes

COVERAGE

- *Watch A Very Vulnerable \$140 Quadcopter Drone Get Hacked Out of The Sky* - 04/25/2017
- *(Video) Watch This Drone Get Hacked Out of The Sky* - 04/27/2017

Threatpost Security News

- *Many Commercial Drones 'Insecure by Design'* - 05/04/2017
- *(Podcast) Threatpost News Wrap* - 05/05/2017

IEEE Spectrum

- *IoT Security Risks: Drones, and Kids' Toys are still vulnerable to hacking* - 09/06/2019

Newsweek

- *We're Surrounded by Billions of Internet-connected Devices. Can We Trust Them?* - 10/24/2019

PROFESSIONAL SERVICE

PROGRAM COMMITTEE SERVICE:

- 9th Women in Cyber-Security conference (WiCyS'22)
- 40th IEEE Symposium on Security and Privacy (IEEE S&P'19) – Poster Jury
- 6th Women in Cyber-Security conference (WiCyS'19)
- 19th AnitaB.org Grace Hopper Conference (GHC'19) – Security & Privacy Track

STUDENT PROGRAM COMMITTEE SERVICE:

- 40th IEEE Symposium on Security and Privacy (IEEE S&P'19)
- 39th IEEE Symposium on Security and Privacy (IEEE S&P'18)
- 38th IEEE Symposium on Security and Privacy (IEEE S&P'17)

EXTERNAL REVIEWER:

- 28th ACM Conference on Computer and Communications Security (CCS'21)
- ACM Digital Threats: Research and Practice (DTRAP'19)
- 23rd European Symposium on Research in Computer Security (ESORICS'18)
- ACM SIGCOMM 2018 Workshop on IoT Security and Privacy (IoT S&P'18)
- 1st International Conference on Science of Cyber Security (SciSec'18)
- 15th International Conference on Privacy, Security and Trust (PST'17)

- 3rd ACM Cyber-Physical System Security Workshop (CPSS'17)
- 24th ACM Conference on Computer and Communications Security (CCS'17)
- IEEE Internet Computing, Magazine Issue on Cyber-Physical Security & Privacy (CPSP'16)
- 21st ACM Conference on Computer and Communications Security (CCS'14)
- 1st International Workshop on Agents and CyberSecurity (ACySe'14)
- IEEE Transactions on Dependable and Secure Computing (TDSC'14)

TECHNICAL SKILLS	<i>Applications & Tools:</i>	Burp Suite Pro, Nmap, Wireshark, MATLAB, Microsoft Threat Modeling Tool
	<i>Operating Systems:</i>	OS X, Linux, Windows
	<i>Programming (familiarity):</i>	Java, Python, Shell Scripting
	<i>Cybersecurity:</i>	Six plus years of experience conducting security assessments & penetration tests on web applications, mobile apps, and networks; practice performing threat modeling-based security assessments; experience translating technical concepts to non-security audiences (e.g., engineers & business leaders); familiarity with OWASP Top 10 & OWASP Mobile Security standards/testing guide

TRAVEL GRANTS & SCHOLARSHIPS	2019	- Travel grant to participate on University of Illinois at Urbana-Champaign's Rising Stars in EECS Workshop - Dropbox/Kaspersky Lab/Microsoft/Shopify/Uber diversity grant to attend USENIX Enigma'19 conference
	2018	- CRA travel award to attend CRA-W Early Career Mentoring Workshop (CMW'18) - WiCyS travel grant to attend IEEE Symposium on Security and Privacy (IEEE S&P'18)
	2017	- Travel grant to attend ACM Computer and Communications Security conference (CCS'17) - NSF travel award to attend IEEE Security & Privacy Student PC in-person meetings (2017 – 2019)
	2016	- NSF/UTD scholarship to attend Women in Cyber-Security conference (2016 – 2018)
	2015	- ACSA travel grant to attend Annual Computer Security Applications Conference (ACSAC'15)
	2015	- Travel grant to attend IEEE Symposium on Security and Privacy (IEEE S&P'15) - NSF/CRA-W travel grant to attend GREPSEC II Workshop
	2014	- UTD/ACM/AnitaB.org partial scholarships to attend Grace Hopper Celebration (2014 – 2017) - CRA travel award to attend CRA-W Graduate Workshop (2014 & 2015)
	2013	- Microsoft scholarship to attend Grace Hopper Celebration of Women in Computing (GHC'13) - TCIPG scholarship to attend Trustworthy Cyber Infrastructure for the Power Grid summer school
	2006	- Academic Distinction Scholarship, The University of Texas at Dallas (2006 – 2009)
	2005	- The State of Texas Valedictorian Scholarship (2005 – 2006)

HACKATHON PROJECTS	Text4Reform – An advocacy tool via texting • Sponsored by FWD.us	Jun 2014
	Developed a text-messaging tool to enable users to send letters for free to their representatives in Congress via texting. Used Twilio, Sunlight Foundations, and FWD.us APIs to provide the service of delivering physical letters on users' behalf. Designed and developed Text4Reform's website.	

HACKATHON: Debug DC Growthathon by FWD.us and Hackers/Founders @ Rackspace, San Francisco, CA
AWARDS RECEIVED: Innovation Award, People's Choice Award, Best Use of Twilio API Challenge
PRIZES RECEIVED: Meetings with Padminasree Warrior (former Cisco CTO), Craig Newmark (craigslist founder)

FWDnow – An advocacy tool to engage people on important causes • Sponsored by FWD.us	Nov 2013
Led team of developers & designers from the Bay Area. Initiated the idea of creating a web app featuring influential people to enable their fans to take action in support of immigration reform. Pitched product idea to Mark Zuckerberg, Reid Hoffman, Drew Houston, Andrew Mason, Joe Green, and Jose Antonio Vargas; and presented final prototype to them. Implemented the front-end web app.	

HACKATHON: FWD.us DREAMer Hackathon held @ LinkedIn, Mountain View, CA
HONOR RECEIVED: Honorable Mention for Design by Mark Zuckerberg

COMPETITION Won 1st place (team effort). AWS Jam Security competition facilitated by Toyota Motor North America (remote). October 16, 2020.

COMMUNITY OUTREACH ACTIVITIES TO INCREASE DIVERSITY IN STEM

- ENGAGEMENT**
- Invited speaker at a Women Who Compute event, UT Dallas (2015)
 - Mentor to a recipient of Collaborative Research Experience for Undergraduates (CREU) program (2014)
 - Served as project judge to the UTD Young Women in Science & Engineering Investigators Program (2014)
 - Invited speaker at the DFW NCWIT Aspiration Award event (2014 & 2015)
 - Mentor and role model for Introduce a Girl to Engineering Day, UT Dallas (2013 & 2014)

EXTRACURRICULAR ACTIVITIES

- Flutist in the UT Dallas Pep Band, Richardson, Texas (2012 – 2018)
- Violist at the UT Dallas Orchestra, Richardson, Texas (2006 – 2016 & 2018)
- Selected to Drum Major leadership position, MacArthur Marching Band, Irving, Texas (2003 – 2005)
- Music theory & woodwind/brass instructor, at a local community organization, Dallas, Texas (2002 – 2012)
- Flutist, at a local community orchestra, Dallas, Texas (1998 – present)

LANGUAGES Portuguese (native), English (fluent), Spanish (working proficiency)