

Efrén López Morales

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Education

- 2021–Present **Ph.D. in Geospatial Computer Science**, *Texas A&M University-Corpus Christi*
Advisor: Carlos Rubio-Medrano
- 2018–2020 **Master's Degree in Computer Science**, *Arizona State University*
Advisors: Gail-Joon Ahn, Adam Doupé, and Carlos Rubio-Medrano
Thesis: HoneyPLC: A Next-generation Honeypot for Industrial Control Systems
- 2009–2012 **Bachelor's Degree in Computer Networks**, *Universidad Autónoma de Guadalajara*
Highest Honors

Publications

Efrén López Morales, Carlos E. Rubio-Medrano, Adam Doupé, Yan Shoshitaishvili, Ruoyu Wang, Tiffany Bao, and Gail-Joon Ahn, "HoneyPLC: A Next-generation Honeypot for Industrial Control Systems," *In Proceedings of the 2020 ACM SIGSAC Conference on Computer and Communications Security 2020*, Online, November, 2020.

Honors & Awards

- May 2022 **Student Travel Award (In-person)**, 43rd IEEE Symposium on Security and Privacy (Oakland S&P)
- Apr 2022 **1st Place Winner in 3MT Thesis Competition**, Texas A&M University-Corpus Christi
- Nov 2021 **iMentor Workshop Student Mentee**, ACM Conference on Computer and Communications Security (CCS)
- Oct 2021 **1st Place in Graduate Computing Poster Competition**, Great Minds in STEM Conference
- 2021 **Student Travel Award (Virtual)**, 42nd IEEE Symposium on Security and Privacy (Oakland S&P)
- 2021 **Conference Diversity Grant (Virtual)**, USENIX Security Symposium (USENIX)
- 2021 **SAGE Fellowship**, Texas A&M University-Corpus Christi

Talks and Presentations

- Apr 2022 **Overleaf Typesetting Workshop**, *Spring Student Research Symposium*, Texas A&M University-Corpus Christi
- Mar 2022 **Ciberseguridad: Habilidades y Oportunidades**, *Guest Speaker*, Universidad de la Sierra Juárez, Mexico
- Mar 2022 **Exploiting and Securing Programmable Logic Controllers**, *Lightning Talks Competition*, 17th Texas A&M University System Pathways Student Research Symposium

Research Experience

- 2021–Present **Graduate Research Assistant**, *Texas A&M University-Corpus Christi*, CSRIL Security Lab
Advisor: Carlos Rubio-Medrano
- 2019–2020 **Graduate Research Assistant**, *Arizona State University*, SEFCOM Laboratory

Teaching Experience

- 2018–2019 **Teaching Assistant (100 Students)**, *CSE110 Principles of Programming with Java*, Arizona State University

Leadership Experience

- 2021-Present **President**, *Geospatial Computer Science Graduate Student Organization (GSCGSO)*, Texas A&M University-Corpus Christi
- 2021-Present **Treasurer**, *Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)*, Texas A&M University-Corpus Christi
- 2019-2020 **President**, *Fulbright International Student Association*, Arizona State University

Industry Experience

- 2020–2021 **Network Support Engineer**, *Cisco Meraki*, Diagnosed and troubleshooted routing and switching, wireless, security, SD-WAN and firewall Meraki products and technologies using the Meraki Dashboard, Wireshark and Knowledge Base articles
- 2016–2018 **Network Engineer**, *Telmex*, Configure and troubleshoot L3 and L2 technologies: MPLS, BGP, EIGRP, OSPF, QoS, VRFs, STP, PoE
- 2014–2016 **Systems Engineer**, *Tata Consultancy Services*, Troubleshooted networking, Windows Server and Active Directory technologies
- 2013 **Systems Engineer**, *Universidad Autónoma de Guadalajara*, Performed as Webmaster and administrator of DNS and Web servers
- 2012 **Junior Network Engineer**, *Pemex*, Configured Cisco, Nortel, Extreme enterprise switches and routers

Languages

Spanish: Native

English: Proficient

Brazilian Portuguese: Proficient

References

Carlos Rubio-Medrano
Department of Computing Sciences
College of Science and Engineering
Texas A&M University-Corpus Christi
Corpus Christi, TX
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