

# 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

- 2022 **Geospatial Engineering Graduate Scholarship**, Texas A&M University-Corpus Christi.
- 2022 **College of Science & Engineering Graduate Scholarship**, Texas A&M University-Corpus Christi.
- 2021 **iMentor Workshop Student Mentee**, ACM Conference on Computer and Communications Security (CCS).
- 2021 **CONACYT Doctoral Scholarship**, Mexican National Council for Science and Technology.
- 2021 **1<sup>st</sup> Place in Graduate Computing Poster Competition**, GMiS Conference.
- 2021 **Student Travel Award**, 42nd IEEE Symposium on Security and Privacy (Oakland S&P).
- 2021 **Conference Diversity Grant**, USENIX Security Symposium (USENIX).
- 2021 **SAGE Fellowship**, Texas A&M University-Corpus Christi.
- 2020 **Conference Diversity Grant**, USENIX Security Symposium (USENIX).
- 2020 **Outstanding Mentor Award**, Arizona State University.
- 2018 **Fulbright-García Robles Scholarship**, Fulbright COMEXUS.
- 2012 **Academic Excellence Scholarship**, Universidad Autónoma de Guadalajara.

## Talks and Presentations

- 2021 **HoneyPLC: A Next-generation Honeypot for Industrial Control Systems**, *Graduate Computing Poster Competition*, GMiS Conference.
- 2020 **HoneyPLC: A Next-generation Honeypot for Industrial Control Systems**, *In Proceedings of the 2020 ACM SIGSAC Conference on Computer and Communications Security 2020*, CCS 2020.

## Research Experience

- 2021–Present **Graduate Research Assistant**, *Texas A&M University-Corpus Christi*.  
2019–2020 **Graduate Research Assistant**, *Arizona State University, SEFCOM Laboratory*.

## Teaching Experience

- 2018–2019 **Teaching Assistant**, *CSE110 Principles of Programming with Java*, Arizona State University.

## Leadership Experience

- 2021–Present **President**, *Geospatial Computer Science Graduate Student Organization*, 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  
carlos.rubiomedrano@tamucc.edu