Mireya Jurado

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EDUCATION

Florida International University   Fall 2021 (Expected)
Ph.D. candidate in Computer Science
GPA: 3.9, Director's Fellow (2016-2019), CAESCIR Fellow (2020-present)

Florida International University   April 2020
M.Sc. in Computer Science
GPA: 3.9

University of Miami   May 2015
B.A. in International Relations, Anthropology, minor in Criminology
GPA: 3.98, *summa cum laude*, Outstanding Student of Anthropology
Phi Beta Kappa

PROFESSIONAL EXPERIENCE

Graduate Research Assistant   Aug 2016-Present
Florida International University
Quantifying information leakage of secure database technologies

Secure Resilient Systems and Technology Intern   May 2018-Aug 2018
MIT Lincoln Laboratory
Designed challenge problems for a program encouraging the advancement of state-of-the-art cryptography supporting private information sharing

Graduate Teaching Assistant   Aug 2017-May 2018
Florida International University
Taught Java in a Programming I undergraduate lab for more than 60 students over two semesters

Secure Resilient Systems and Technology Intern   May 2017-Aug 2017
MIT Lincoln Laboratory
Contributed to the early design of a new security architecture for all federal departments and agencies

Computer Science Tutor   June 2016-Aug 2016
Florida International University
Taught student athletes programming and Microsoft suite tools

Ethnographic Researcher   June 2015-July 2015
Proyecto de Interacción Política de Yucatán
    Conducted informal interviews with members of a Maya community to explore Pre-Hispanic
    culinary traditions

Research Assistant
Lowe Art Museum   Feb 2015-May 2015
    Investigated Andean art and contributed essays to the official exhibit publication

International Humanitarian Law Chapter Liaison   Sep 2014-May 2015
American Red Cross, Greater Miami and the Keys
    Initiated a new campaign to teach International Humanitarian Law to high school students

Identification Unit Intern   Jul 2011-Aug 2011
Las Cruces Police Department
    Documented possible crime scenes and collected evidence

AWARDS

Center for Advancing Education and Critical Infrastructure Resilience (CAESCIR) Fellowship Award	2020-present
$1000 for ACM Conference on Computer and Communications Security 2019 (ACM CCS19) Student Travel Grant	2019
$675 for 12th ACM Conference on Security and Privacy in Wireless and Mobile Networks (ACM WiSec) Student Travel Grant	2019
$90,000 for School of Computation of Information Sciences Director's Fellowship Award	2016-2019
Outstanding Student for the Anthropology Department	2015

PUBLICATIONS AND PRESENTATIONS

Eww You're Leaking: A Formal Introduction to Information Leakage (presentation), Mireya Jurado, in
    The Diana Initiative (TDI2021), virtual, July 2021 (no published proceedings).

A Formal Information-Theoretic Leakage Analysis of Order-Revealing Encryption, **Mireya Jurado**,
    Catuscia Palamidessi, and Geoffrey Smith, in *2021 IEEE 34th Computer Security Foundations
    Symposium (CSF)*, Dubrovnik, June 2021.

Quantifying Information Leakage of Deterministic Encryption (invited lecture), **Mireya Jurado** and
    Geoffrey Smith for Brown University's Computer Science's Cryptography, Anonymity, Privacy and
    Security (CAPS) group seminar.

Quantifying Information Leakage of Deterministic Encryption, **Mireya Jurado** and Geoffrey Smith, in *Proc. CCSW'19:2019 Cloud Computing Security Workshop*, London, UK, November 2019.

Quantifying Information Leakage of Searchable Encryption (poster), PI: Geoffrey Smith, Presenter: **Mireya Jurado**, in *National Science Foundation Secure and Trustworthy Cyberspace (SaTC) Principal Investigators' Meeting (SaTC PI Meeting 2019)*, Alexandria, VA, October 2019.

Quantifying Information Leakage of Deterministic Encryption (poster and lightning talk), **Mireya Jurado** and Geoffrey Smith, in *Florida International University School of Computing and Information Sciences Research Day 2019 (FIU SCIS R-Day 2019)*, Miami, FL, October 2019.

Quantifying Information Leakage of Deterministic Encryption (lightning talk), **Mireya Jurado** and Geoffrey Smith, in *Encrypted Search Workshop*, Providence, RI, June 2019.

Analyzing China's Influence over Bitcoin (presentation), Ben Kaiser, **Mireya Jurado**, Alex Ledger, presented at the *CryptoEconomics Security Conference*, San Francisco, CA, October 2018. (no published proceedings). (Cited in a congressional hearing held by the Committee on Banking, Housing, and Urban Affairs titled "Exploring the Cryptocurrency and Blockchain Ecosystem.")

SERVICE AND MENTORSHIP

Chair of the Computer Science Graduate Association Outreach Committee   2017-2018
    Conducted round table interviews of prospective faculty and oversaw graduate student programs

Project Mentor   2017-2018
    Directed 2 undergraduate students to implement a searchable encryption solution