

Anindya Maiti

NPB 2.232.01, One UTSA Circle, San Antonio, TX 78249, USA

✉ a.maiti@ieee.org, anindya.maiti@utsa.edu

☎ +1 (316) 243 6204, +372 8139 7563

http:// maiti.info/anindya

Work Experience

University of Texas at San Antonio, San Antonio, USA

Research Fellow • Department of Computer Science • February 2018 – Present

Wichita State University, Wichita, USA

Graduate Research Assistant • August 2013 – December 2017 • Supported by NSF and AFRL

Indian Institute of Technology, Kharagpur, India

Summer Research Intern • June 2011 – July 2011

Education

Doctor of Philosophy in Electrical Engineering and Computer Science

Wichita State University, Wichita, USA • May 2018 • GPA: 3.90 /4.0

Dissertation: "Security and Privacy of Cyber and Physical User Interactions in the Age of Wearable Computing"

Master of Science in Electrical Engineering

Wichita State University, Wichita, USA • July 2014 • GPA: 3.95 /4.0

Thesis: "Context-Aware Access Control: An Alternate Privacy Protection Mechanism for Online Social Networks"

Bachelor of Technology in Computer Science and Engineering

Vellore Institute of Technology, Vellore, India • May 2012 • CGPA: 7.68 /10.0

Research Interests

- ❖ Privacy and Security in Cyber-Physical Systems.
- ❖ Cryptography and Network Security.
- ❖ Machine Learning, Artificial Intelligence, and Deep Learning.
- ❖ Blockchains and Cryptocurrency.

Recent Publications

Journal Articles

- JA1. **Anindya Maiti**, Murtuza Jadliwala, Jibo He and Igor Bilogrevic, "Side-Channel Inference Attacks on Mobile Keypads using Smartwatches", *IEEE Transactions on Mobile Computing*, 2018.
- JA2. Arash Boustani, **Anindya Maiti**, Sina Yousefian Jazi, Murtuza Jadliwala, and Vinod Namboodiri, "Seer Grid: Privacy and Utility Implications of Two-Level Load Prediction in Smart Grids", *IEEE Transactions on Parallel and Distributed Systems*, 2017.

Conference/Workshop Papers

- CP1. **Anindya Maiti**, Kirsten Crager, Murtuza Jadliwala, and Jibo He, "RandomPad: Usability of Randomized Mobile Keypads for Defeating Inference Attacks", *IEEE EuroS&P - IMPS Workshop*, 2017.
- CP2. **Anindya Maiti**, Murtuza Jadliwala, and Chase Weber, "Preventing Shoulder Surfing using Randomized Augmented Reality Keyboards", *IEEE PerCom - SPT-IoT Workshop*, 2017.
- CP3. **Anindya Maiti**, Oscar Armbruster, Murtuza Jadliwala, and Jibo He, "Smartwatch-Based Keystroke Inference Attacks and Context-Aware Protection Mechanisms", *ACM ASIACCS*, 2016.
- CP4. **Anindya Maiti**, Murtuza Jadliwala, Jibo He and Igor Bilogrevic, "(Smart)Watch Your Taps: A Comprehensive Study of Side-Channel Keystroke Inference Attacks on Modern Touchpads using Smartwatches", *ACM ISWC*, 2015.
- CP5. Murtuza Jadliwala, **Anindya Maiti** and Vinod Namboodiri, "Social Puzzles: Context-Based Access Control in Online Social Networks", *IEEE/IFIP DSN*, 2014.

Accolades

- ❖ Became fellow of the Eta Kappa Nu - Epsilon Xi Chapter • 2017
- ❖ Received SGA Travel Grant multiple times • EuroS&P 2017 • UbiComp/ISWC 2015
- ❖ Received NSF Student Travel Grant multiple times • PerCom 2017 • DSN 2014
- ❖ Received Boeing GEI Travel Grant • ASIACCS 2016
- ❖ Received Wichita State University's **Outstanding Master's Thesis Award** • 2015
- ❖ Became fellow of the Golden Key International Honour Society • 2013

Professional Activities

- ❖ Member of ACM, IEEE and IAENG.
- ❖ Reviewer for ACM IMWUT/UbiComp, IEEE TIFS, and IEEE TIST.
- ❖ Invited talk at the Kansas Linux Fest, "*Why I have a Cloud Server in My Bedroom*", May 2017.
- ❖ Invited talk at the Cybersecurity Association (CSA@WSU) seminar series, "*The Invisible Intrusion: How Side-Channel Attacks Using Mobile and Wearable Devices Go Undetected*", February 2016.

Technical Expertise

Legend | **Expert** • *Advanced* • Intermediate

Programming & Scripting | {**C** • **C++** • **Java** • **Python**} • *MATLAB* • {{**PHP** • JSP } • {**JavaScript** • **HTML** • **CSS**} • {XML • JSON}} • {**CUDA** • OpenMP} • **LaTeX**

Cryptographic Libraries | *OpenSSL* • NaCl • Crypto++

Machine Learning | **WEKA** • Theano • TensorFlow • *PyBrain*

Cloud and Virtualization | **Amazon Web Services** • OpenStack • Windows Azure • **Hyper-V** • KVM • *VMware*

Application Development | **Android** • *Windows* • **Linux** • iOS • **Android Wear**

Miscellaneous | **Git** • *Apache*

References

- ❖ **Dr. Murtuza Jadliwala**
Assistant Professor
Department of Computer Science, University of Texas at San Antonio, San Antonio, TX 78249, USA
murtuza.jadliwala@utsa.edu • +1 (210) 458 5693
- ❖ **Dr. Jibo He**
Associate Professor
Psychology Department, Wichita State University, Wichita, KS 67260, USA
jibo.he@wichita.edu • +1 (217) 417 3830

Revision dated March 16, 2018.

For the most up to date version of this curriculum vitae, please visit <http://maiti.info/anindya/cv.pdf>, or scan the QR code.

