

# ZHIBO “ERIC” SUN

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## RESEARCH INTERESTS

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My research interests lie broadly in the area of computer security and privacy. In my research, I apply data-driven analytics to study real-world computer security problems and investigate human vulnerabilities by analyzing users' security behaviors and decision-making processes. In particular, some of my research is about e-crime, threat intelligence, underground economies, Internet fraud, and web security.

## EDUCATION

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**Arizona State University**, Tempe, AZ 2016 – Current  
*Ph.D.* in Computer Science

**University of Wyoming**, Laramie, WY 2011 – 2013  
*Master* in Computer Science

## PUBLICATION

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### Conferences:

- Penghui Zhang, **Zhibo Sun**, Sukwha Kyung, Hans Behrens, Zion Leonahenahe Basque, Haehyun Cho, Adam Oest, Ruoyu Wang, Tiffany Bao, Yan Shoshitaishvili, Gail-Joon Ahn, and Adam Doupé. I'm Spartacus, No, I'm Spartacus: Proactively Protecting Users from Phishing by Intentionally Triggering Cloaking Behavior. In *Proceedings of the ACM Conference on Computer and Communications Security (CCS)*, 2022.
- **Zhibo Sun**, Adam Oest, Penghui Zhang, Carlos Rubio-Medrano, Tiffany Bao, Ruoyu Wang, Ziming Zhao, Yan Shoshitaishvili, Adam Doupé, and Gail-Joon Ahn. Having Your Cake and Eating it: An Analysis of Concession-Abuse-as-a-Service. In *Proceedings of the USENIX Security Symposium (USENIX)*, 2021.
- Penghui Zhang, Adam Oest, Haehyun Cho, **Zhibo Sun**, RC Johnson, Brad Wardman, Shaown Sarker, Alexandros Kapravelos, Tiffany Bao, Ruoyu Wang, Yan Shoshitaishvili, Adam Doupé, and Gail-Joon Ahn. CrawlPhish: Large-scale Analysis of Client-side Cloaking Techniques in Phishing. In *Proceedings of the IEEE Symposium on Security and Privacy (Oakland)*, 2021. **Best Student Paper Award**
- Marzieh Bitaab, Haehyun Cho, Adam Oest, Penghui Zhang, **Zhibo Sun**, Rana Pourmohamad, Doowon Kim, Tiffany Bao, Ruoyu Wang, Yan Shoshitaishvili, Adam Doupé, and Gail-Joon Ahn. Scam Pandemic: How Attackers Exploit Public Fear through Phishing. In *Proceedings of the Symposium on Electronic Crime Research (eCrime)*, 2020.
- **Zhibo Sun**, Carlos E. Rubio-Medrano, Ziming Zhao, Tiffany Bao, Adam Doupé, and Gail-Joon Ahn. Understanding and Detecting Private Interactions in Underground Forums. In *Proceedings of the ACM Conference on Data and Application Security and Privacy (CODASPY)*, 2019.
- Ajay Modi, **Zhibo Sun**, Anupam Panwar, Tejas Khairnar, Ziming Zhao, Adam Doupé, Gail-Joon Ahn, and Paul Black. Towards Automated Threat Intelligence Fusion. In *Proceedings of the IEEE International Conference on Collaboration and Internet Computing (CIC)*, 2016.
- **Zhibo Sun**, Hong Zhang, Zixia Liu, Chen Xu, and Liqiang Wang. Migrating GIS Big Data Computing from Hadoop to Spark: an Exemplary Study Using Twitter. In *Proceedings of the IEEE International Conference on Cloud Computing (CLOUD)*, 2016.
- Hong Zhang, **Zhibo Sun**, Zixia Liu, Chen Xu, and Liqiang Wang. Dart: A Geographic Information System on Hadoop. In *Proceedings of the IEEE International Conference on Cloud Computing (CLOUD)*, 2015.
- **Zhibo Sun**, Ashish Dhital, Nattaya Areejitkasem, Neera Pradhan, and Amy Banic. Effects on Performance of Analytical Tools for Visually Demanding Tasks through Direct and Indirect Touch Interaction in an Immersive Visualization. In *Proceedings of the IEEE International Conference on Virtual Reality and Visualization (ICVRV)*, 2014.

## TEACHING EXPERIENCE

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- **Teaching Assistant** (82 Students) Jan. 2016 – May. 2016  
*CSE 469 & 598: Forensic Computing: Computer and Network Forensics* Arizona State University
- **Instructor** (60 Students) Jan. 2013 – May. 2015  
*COSC 1200: Computer Information Systems* University of Wyoming
- **Instructor** Mar. 2012 – May. 2012

## HONORS AND AWARDS

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- **Best Student Paper Award** May 2021  
*by the 42nd IEEE Symposium on Security and Privacy (Oakland)*
- **The CIDSE Doctoral Fellowship** Mar 2020  
*by the School of Computing, Informatics, and Decisions Systems Engineering (CIDSE) Arizona State University*
- **The Cybersecurity Fellowship** Aug 2019  
*by the School of Computing, Informatics, and Decisions Systems Engineering (CIDSE) Arizona State University*
- **The Cybersecurity Fellowship** May 2019  
*by the School of Computing, Informatics, and Decisions Systems Engineering (CIDSE) Arizona State University*

## SERVICE

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- **Program Committee**
  - 2022 IEEE Symposium on Security and Privacy (Poster Session) (Oakland)
  - International Conference on Emerging Security Information, Systems and Technologies (SECURWARE), 2022
  - 2021 APWG Annual Symposium on Electronic Crime Research (eCrime)
- **Journal Reviewer**
  - Computers & Security (COSE)
  - IEEE Transactions on Dependable and Secure Computing (TDSC)
  - International Journal of Data Science and Analysis (IJDSA)
  - Information Systems Frontiers (ISFI)
- **External Reviewer**
  - 2022 Network and Distributed System Security Symposium (NDSS)
  - 2020 ACM Conference on Data and Application Security and Privacy (CODASPY)
  - 2018 European Symposium on Research in Computer Security (ESORICS)
  - 2017 ACM Conference on Data and Application Security and Privacy (CODASPY)
  - 2017 ACM Conference on Computer and Communications Security (CCS)
  - 2015 International Conference on Computational Science (ICCS)
  - 2015 International Workshop on Programming Models and Applications for Multicores and Manycores (PMAM)
  - 2013 IEEE Symposium on 3D User Interfaces (3DUI)

## TALKS

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### Guest Lectures:

- **Cybercrime in Undergrounds** 2021  
*Computer Forensics class, Texas A&M University–Corpus Christi*
- **Automated Threat Intelligence Framework** 2016  
*Computer and Network Forensics class, Arizona State University*

### Invited Talks:

- **Report It: An Overlooked Way to Fight Phishing Attacks** 2020  
*PayPal Inc.*

### Conference Presentations

- **Having Your Cake and Eating It: An Analysis of Concession-Abuse-as-a-Service** 2021  
*Proceedings of the 30th USENIX Security Symposium (USENIX)*
- **Understanding and Detecting Private Interactions in Underground Forums** 2019  
*Proceedings of the Ninth ACM Conference on Data and Application Security and Privacy (CODASPY)*
- **Towards Automated Threat Intelligence Fusion** 2016  
*Proceedings of the IEEE Conference on Collaboration and Internet Computing (CIC)*

- **DART: A Geographic Information System on Hadoop** 2015  
*Proceedings of the IEEE International Conference on Cloud Computing (Cloud)*
- **Effects on Performance of Analytical Tools for Visually Demanding Tasks through Direct and Indirect Touch Interaction in an Immersive Visualization** 2014  
*Proceedings of the IEEE International Conference on Virtual Reality and Visualization (ICVRV)*

#### Poster Presentations

- **Understanding and Detecting Private Interactions in Underground Forums** 2018  
*Center for Cybersecurity and Digital Forensics (CDF) Cybersecurity Symposium*
- **Threat Intelligence Analytics (TIA): Assembling the Jigsaw Puzzles of Cybercrimes** 2016  
*Center for Cybersecurity and Digital Forensics (CDF) Cybersecurity Symposium*
- **Immersive Visualization in a CAVE?**  
**There's an app for that: Mobile Devices as a Universal Medium for Interaction** 2012  
*Rocky Mountain Celebration of Women in Computing 2014 (RMCWiC)*