

# Bhupendra Acharya

## Curriculum Vitae

Saarbrücken, Germany

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## Research Interests

Web and Network Security; Phishing, Scams and Abuses; Applied Security Attack, Detect and Defenses.

## Education

- Jan 2018 – **Doctoral in Engineering and Applied Sciences**  
Dec 2023 Department of Computer Science, University of New Orleans  
**Thesis:** Analyzing the Robustness of Social Engineering Attacks on Defense Systems
- Jan 2018 – **MS in Computer Science (Cyber Security)**  
Dec 2020 Department of Computer Science, University of New Orleans  
**Thesis:** PhishPrint: A Novel Framework for Scalable Evaluation of Web Security Crawlers and Mining of Unknown Cloaking Vectors
- Jan 2007 – **BS in Computer Science**  
Dec 2010 Department of Computer Science, Cameron University

## Academic Experience

- Mar 2023 – **Postdoctoral Researcher.** CISPA Helmholtz Center for Information Security, Germany.  
Present Advisor: Dr. Thorsten Holz
- Jan 2018 – **Teaching / Research Assistant (PhD Student),** University of New Orleans, LA, US.  
Dec 2022 Supervisor/Advisor: Dr. Mahdi Abdelguerfi / Dr. Phani Vadrevu

## Industrial Experience

- 2021 - 2022 – **SDE-T Payments and Devices.** [Amazon Inc.](#)  
2013 - 2018 Seattle, WA and Sunnyvale, CA, US.
- 2012 - 2013 – **SDE-T/Web and DB.** [Raima Inc.](#)  
Seattle, WA, US.
- 2011 - 2012 – **SDE-T/Payments CRM Dynamics.** [Microsoft Inc](#) (Contracting via [PeopleTech Group](#)).  
Redmond, WA, US.

## Honors and Awards

- 2022 **Innovative and Think Big,** HackaFire Amazon Fire TV and Devices Awards  
2021 **Offensive Attack,** Google Vulnerability Rewards (Twice)  
2021-2022 **Conference Grants,** USENIX Registration (2021), DIMVA Travel (2022)  
2007-2010 **List of Honors,** Cameron University Dean's List

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## Publications (peer-reviewed)

[5] [Bhupendra Acharya](#), Dario Lazzaro, Antonio Emanuele Cinà, Lea Schönherr, Efren Lopez Morales, Muhammad Saad, Adam Oest, Thorsten Holz. **The Imitation Game: Exploring Brand Impersonation Attacks on Social Media Platforms**. In *Proceedings of the 33<sup>rd</sup> USENIX Security Symposium (USENIX Security)*, 2024.

[4] [Bhupendra Acharya](#), Muhammad Saad, Antonio Emanuele Cinà, Lea Schönherr, Hoang Dai Nguyen, Adam Oest, Phani Vadrevu, Thorsten Holz. **Conning the Crypto Conman: End-to-End Analysis of Cryptocurrency Technical Support Scams**. In *Proceedings of the 45<sup>th</sup> IEEE Symposium on Security and Privacy (IEEE S&P)*, 2024.  
Acceptance Rate: 100/582 (17.18%)

[3] Hoang Dai Nguyen, Karthika Subramani, [Bhupendra Acharya](#), Roberto Perdisci, Phani Vadrevu. **C-FRAME: Characterizing and Measuring in-the-wild CAPTCHA Attacks**. In *Proceedings of the 45<sup>th</sup> IEEE Symposium on Security and Privacy (IEEE S&P)*, 2024.  
Acceptance Rate: 70/601 (11.64%)

[2] [Bhupendra Acharya](#), Phani Vadrevu. **A Human in Every APE: Delineating and Evaluating the Human Analysis Systems of Anti-Phishing Entities**. In *Proceedings of the 19<sup>th</sup> Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, 2022.  
Acceptance Rate: 11/39 (28.2%)

[1] [Bhupendra Acharya](#), Phani Vadrevu. **PhishPrint: Evading Phishing Detection Crawlers by Prior Profiling**. In *Proceedings of the 30<sup>th</sup> USENIX Security Symposium (USENIX Security)*, 2021.  
Acceptance Rate: 246/1316 (18.7%)

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## Research (under review at conferences)

[6] ScamChatBot: An End-to-End Analysis of Fake Account Recovery on Social Media via Chatbots [Round 2, ACM CCS]

[7] Analysis of Regional and Categorical Filterlists Biasedness in the Web [Round 1, ACSAC]

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## Research (in pipeline to submissions)

[8] Buy and Sale of Social Media Profiles (Student's Thesis work, Target NDSS, July 10, 2024)

[9] End-to-End Analysis of Scam Donation in Social Media (Target NDSS, July 10, 2024)

[10] PhishTail: Measurement Study on Long Tail of Phishing Target via Wiki-Centric Corpuses. (Collaboration KU Leuven & CISPA, Target USENIX Sep 04, 2024)

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## Teaching

**CS 2467 Systems Programming and Concept, Instructor**

**2021:** Spring and Summer Semesters

**2020:** Spring, Summer, and Fall Semesters

University of New Orleans, LA, US

**CS 2450 Machine Language and Assembly, Instructor**

**2021:** Fall Semester

University of New Orleans, LA, US

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## Academic Service

**2023** Artifact Evaluation Committee, ACM CCS  
Artifact Evaluation Committee, USENIX Security

**2024**  
Artifact Evaluation Committee, USENIX Security

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## Supervising Thesis Students

### Graduate

2024 – Present **Abdullah Alfurjani**, Saarland University, Germany, [Thesis Research](#)  
2024 – Present **Amala Augustine**, Saarland University, Germany, [Thesis Research](#)  
2024 - Present **Mario Beluri**, Saarland University, Germany, [Thesis Research](#)  
2024 - Present **Marjo Toska**, Saarland University, Germany, [Thesis Research](#)  
2024 - Present **Sagar Kishore**, Saarland University, Germany, [Thesis Research](#)  
2024 - Present **Nilaa Maharjhan**, Saarland University, Germany, [Thesis Research](#)  
2023 - 2024 **Dominik Sautter\*\***, Saarland University, Germany, [Thesis Research](#)

### Undergraduate

2024 – Present **Andreas Brix**, Saarland University, Saarbrücken, Germany, [CyberSecurity Projects](#)  
2024 – Present **Ady Elouej**, Saarland University, Saarbrücken, Germany, [Thesis Research](#)  
2023 – 2024 **Laura Thineta Maulia\*\***, Saarland University, Saarbrücken, Germany, [Thesis Research](#)

\*\* Alumni student who already completed thesis work and graduated.

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## Invited Talks

**April 2024** **Title: Empirical Study on Web Attacks and Abuses**  
Texas A&M, Kingsville, TX  
Inviting CS Faculty: Dr. Avdesh Mishra

**Feb 2024** **Title: Cloak and Scam: Creating Honeypots to Measure Present-Day Internet Defense Mechanisms**  
University of New Mexico, New Mexico, NM  
Inviting CS Faculty: Dr. Afsah Anwar

**Nov 2023** **Title: How Safe Is the Web? Analyzing the Robustness of Prevalent Social Engineering Defenses**  
Tulane University, New Orleans, LA  
Inviting CS Faculty: Dr. Zizhan Zheng

**Jan 2023** **Title: Analyzing the Robustness of Prevalent Social Engineering Defense Mechanisms**  
California State LA, Los Angeles, CA  
Inviting CS Faculty: Dr. Raj S. Pamula

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## Writing

**Grant Write** **DFG Grant**, Currently, I am writing a Grant with Dr. Tobias Urban (Westphalian University of Applied Sciences, Germany) on **“Making Web Safer and Private”**. (Target: Jun 15, 2024)

**Book Write** I am currently writing a book called **“Fundamentals of Advanced Web Security”**.



# Last Updated

Jun 01, 2024

