

Ahmad Mohammadi

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[EDUCATION]

- **Ruhr University Bochum**, Bochum, Germany, 2025 – 2028
PhD. in Computer Science, Supervisor: Dr. Ivan Habernal
Thesis Topic: Privacy and Trust in Natural Language Processing.
- **Sharif University of Technology**, Tehran, Iran, 2020 – 2023
M.Sc. in Computer Engineering (Secure Computing), GPA 17.8/20
Supervisor: Dr. Rasoul Jalili
Thesis Title: Preserving data utility in applying differential privacy on correlated data
- **Amirkabir University of Technology**, Tehran, Iran, 2014-2016 /
Shiraz University, Shiraz, Iran, 2016 – 2018
B.Sc. in Electrical Engineering, GPA 16.65/20

[PUBLICATION]

- Enhanced Two-Phase Membership Inference Attacks on Large Language Models, A.Mohammadi, I.Habernal, 2025 (Under Review)
- CALDP: A Correlation-Aware Approach to Local Differential Privacy, M.Zolfaghari, A.Mohammadi, R.Jalili, ACM, 2024
- Privacy book, Dwork, Translated to Persian by M.Zolfaghari, A.Mohammadi, R.Jalili, 2024
- Infrared Cloaking by Scattering cancelation Method using Graphene, M.Danaeifar, A.Mohammadi, N.Granpaye, IOP Science, 2014
- Graphene based tunable terahertz and infrared bandpass filter, Danaeifar, N.Granpaye, A.Mohammadi, A.Setayesh, APPLIED OPTICS, 2013
- Tackling Terahertz Transceiver Design, A.Mohammadi, M.Danaeifar, Microwave & RF, 2013

[EDUCATION EXPERIENCES]

TEACHER ASSISTANT (TA)

- Information theory and coding Course by Dr. Mahdi Jafari Siavoshani, Sharif University of Technology, Fall 2022
- Applied cryptography Course by Dr. Koochak Shooshtari, Sharif University of Technology, Spring 2023

[HONORS AND AWARDS]

- Thesis recognized with an honorable mention by the Iranian Cryptography Association, 2024
- Recognized as a Scientific Talent by the National Elites Foundation, Iran, 2023.
- Achieved 15th Place in Nationwide University Entrance Exam for M.Sc. Program in Computer Engineering (among More Than 20000 Competitors), Iran, 2020.

[CERTIFICATES]

- Red Team (SEC565), 40 hours, NooraNet, 2023
- Linux Forensic (FOR577), 30 hours, NooraNet, 2023
- Network Forensic (FOR 572), 30 hours, NooraNet, 2022
- Security Certified Professional (PWK), 30 hours, NooraNet, 2022
- Certified Ethical Hacker (CEH), 40 hours, NooraNet, 2021
- Machine & Deep learning Specialization, Coursera, Andrew NG., 2020

[WORK EXPERIENCES]

- **Network security Expert** at MCI, Tehran, Iran, 2024-Present
 - Linux forensic
 - Red team member
 - Web Application Penetration test
 - Network Security Audit
 - Datacenter Security
- **Data Governance Office Manager** at MCI, Tehran, Iran, 2022-2024
 - Data privacy and Access Control tools development
 - Data Discovery and quality testing tools development
 - Data Governance Policy development
 - Data strategy development
 - Digital Services data analysis
- **Researcher and Developer** at MCI, Tehran, Iran, 2021-2022
 - Developing User Identity Approaches
 - Developing Users Access Control System
- **Freelance Developer**, Tehran, Iran, 2020-Present
 - Django Developer for web applications
 - Python Developer for data analysis
- **Researcher and Developer** at National cyberspace Center, Tehran, Iran, 2018-2021
 - Social media analysis
 - Python developer

[SKILLS]

CONCEPTUAL SKILLS

- Data Privacy
- Differential privacy
- Information Theory
- Machine/Deep learning
- Cryptography Theory and Application
- Formal Methods
- Network Security
- Web application Security

- Network Concepts and Designs

TECHNICAL SKILLS

- **Programming Languages:** Python, C, PowerShell, HTML, JavaScript, SQL, Bash
- **Frameworks:** Django, React
- **Operating Systems:** Linux (Ubuntu, Kali), Microsoft Windows & Windows Server Distributions
- **Softwares and Tools:**
 - o DBMSs (Microsoft SQL Server, MySQL, PostgreSQL)
 - o Network Tools (Cisco Packet Tracer, WireShark, Nmap, tcpdump)
 - o Firewall & IDS (Iptables, Snort, Suricata)
 - o Web Scanners (Acunetix, NetSparker, SQLmap, Burp Suit)
 - o Virtualization Tools (Virtualbox, VM-ware)

LANGUAGES

- First Language: Persian
- Fluent in Reading, Listening, Speaking and Writing English
- Familiar with Korean and Deutsch

[REFERENCES]

- **Dr. Ivan Habernal**, Professor at Computer Science Faculty, Ruhr University Bochum, Email:ivan.habernal@ruhr-uni-bochum.de (PhD Supervisor)
- **Dr. Rasool Jalili**, Associate Professor and Faculty Member of Computer Engineering Department, Sharif University of Technology, Email: jalili@sharif.edu (Master's Supervisor)
- **Dr. Morteza Amini**, Associate Professor and Faculty Member of Computer Engineering Department, Sharif University of Technology, Email: amini@sharif.edu (Master's Thesis Reviewer)
- **Dr.Mohammad Danaeifar**, Assistant Professor and Faculty Member of Electrical Engineering Department, University of Qom, Email: m.danaeifar@qom.ac.ir