Ahmet **Kapkiç**

TEMPE · ARIZONA · USA

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Research Interest

I am interested in creating value from data and making it secure, both utilizing and protecting against the popularity of AI. Currently, I am pursuing a Ph.D. in Computer Science focusing on Causality and its practical applications, drawing the line between the causes and correlations, producing insights and finding cause-based patterns to better understand the systems. My current work aligns with some of the United Nations' sustainability goals; Affordable Energy, Sustainable Cities and Responsible Consumption. Previously I have conducted and research in the fields of Cyber Security, Artificial Intelligence (Image Recognition), Big Data Analytics and Machine Learning, analyzing file logs to improve cloud storage system performances.

Education

Arizona State University — *Tempe, AZ, USA*

PH.D. IN COMPUTER SCIENCE, GPA: 3.86/4.00 — *Aug 2022 - Cont.*

- **Working on Causality, Causal Inference and their practical applications alongside three NSF projects**

Youngstown State University — *Youngstown, Ohio, USA*

MASTERS IN COMPUTING INFORMATION SYSTEMS, GPA: 4.00/4.00 — *Aug 2019 - May 2021*

- **Thesis focused on Pedestrian Detection in Videos**
- **2019 & 2020 YSU Graduate College Premiere Scholarship**

Gazi University — *Ankara, Turkey*

B.SC. COMPUTER ENGINEERING, GPA: 3.01/4.00 — *Sep 2014 - Oct 2018*

- **TUBITAK 2242 District Finalist**
- **TUBITAK 2209-B Thesis Support**
- **Dell EMC Envision the Future Competition Finalist**

Experience

New York University - Secure Systems Lab — *New York, USA*

RESEARCHER — *May 2021 - June 2022*

Worked as a part of the Lind project team, which is a single-process sandbox that provides an option to safely execute programs and control its resource (network, file, memory, cpu, etc.) usage at the process granularity `ssl.engineering.nyu.edu/projects#lind`.

Youngstown State University — *Youngstown, Ohio*

PART-TIME FACULTY — *Aug 2021 - May 2022*

Taught Data Management, Development of Databases, Human-Computer Interaction, System Configuration and Maintenance and E-commerce Programming classes during a year of teaching, to a total of 200 students.

Journal Publications

A Vision for Spatio-Causal Situation Awareness, Forecasting, and Planning — *PUBLISHED*

ACM TRANSACTIONS ON SPATIAL ALGORITHMS AND SYSTEMS (VISION PAPER) — *2024*

`HTTPS://DL.ACM.ORG/DOI/10.1145/3672556`

F. T. Azad, K. S. Candan, A. Kapkic, M-L. Li, H. Liu, P. Mandal, P. Sheth, B. Arslan, G. Chowell-Puente, J. Sabo, R. Muenich, J. R. Anton, M. L. Sapino

An Analysis on Wireless Network Device Access Security and Awareness: Case Study of Ankara — *PUBLISHED*

INTERNATIONAL JOURNAL OF INFORMATION SECURITY ENGINEERING, VOLUME: 1, ISSUE: 1, PAGES: 11-19 — *2015*

`HTTPS://WWW.RESEARCHGATE.NET/PUBLICATION/313847809_KABLOSUZ_AG_CIHAZI_ERISIM_GUVENLIGI_VE_FARKINDALIK_ANALIZI_ANKARA_ORNEGI`

U. Yavanoglu, A. Kapkic, S. T. Yagci, C. Aktepe, G. Tuncer

Conference Publications

CausalBench-ER: Causally-Informed Explanations and Recommendations for Reproducible Benchmarking

CIKM'25 — *2025*

A. Kapkic, P. Mandal, A. Gorantla, S. Wan, E. Coban, P. Sheth, H. Liu, K. S. Candan

Introducing CausalBench: A Flexible Benchmark Framework for Causal Analysis and Machine Learning

*Best Demo Award

CIKM'24

2024

A. Kapkic, P. Mandal, S. Wan, P. Sheth, A. Gorantla, Y. Choi, H. Liu, K. S. Candan

Big Data Analytics in Cloud File Logs

ORAL

IEEE International Congress on Big Data, Deep Learning and Fighting Cyber Terrorism (IBIGDELFT)

2018

A. Kapkic, E. Cakici, E. Canbaz

Assessment of Wireless and IoT Security Awareness: A Case Study

POSTER

7th International Conference on Advanced Technologies (ICAT'18)

2018

B. Ozcakmak, A. Kapkic, B. Bagiroz, A. Koc, U. Yavanoglu

Workshop and Abstract Publications

CausalBench: Causal Learning Research Streamlined

HANDS-ON TUTORIAL

KDD'25

2025

A. Kapkic, P. Mandal, A. Gorantla, S. Wan, E. Coban, P. Sheth, H. Liu, K. S. Candan

Cyber Threats, Cyber Awareness

ORAL

Workshop on Numerical Communication Techniques and Technological Developments in Communication Systems in Fighting Forest Fires

2019

A. Kapkic, G. Acikgoz

Mobile Devices and Cyber Security Awareness

ORAL

International Conference on Information Security and Cryptology (ISCTurkey 2017)

2017

A. Kapkic, G. Acikgoz

Patents

Measuring Long Distances in Outdoor Environments Using Mobile Devices and Determining the Accuracy of a Shared Status

Active, issued in 2022

Turkish Patent App. 2018/20111

2018

S. Sagiroglu, A. Kapkic* (*equal contribution)

Teaching

Youngstown State University

Faculty

DATA MANAGEMENT/DEVELOPMENT OF DATABASES, DATX 5801/CSIS 3722

Spring 2022

Teaching the fundamentals of Database design, SQL, Big Data, Oracle DB.

Faculty

Human-Computer Interaction, CSIS 3731

Fall 2021

Teaching the fundamentals of HCI, properties of a good UI and UX, and the theories. Using Designing the User Interface as the source material and real-life examples.

Faculty

E-Commerce Programming, CSCI 3760

Fall 2021 - Spring 2022

Teaching with a focus on server side programming related to electronic commerce, using PHP, SQL, and MySQL.

Faculty

System Configuration and Maintenance, CSIS 2620

Fall 2021

Providing the student with the information necessary to install, maintain and troubleshoot hardware and software components of computer systems. With a focus on CompTIA's Latest A+ 220-1001/1002 objectives. 17 Students.