

# ANISA HALIMI

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2101 Martin Luther King Jr. Dr., Olin Building, Room 503 ◊ Cleveland, OH 44106

## EDUCATION

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### Case Western Reserve University

*Jan. 2018 - May 2021 (expected)*

Ph.D. in Computer Science

Thesis Title: *"Modeling, Quantification, and Mitigation of Profile Matching Risk in Online Social Networks"*

Advisor: Asst. Prof. Dr. Erman Ayday

### Bilkent University

*Sep. 2015 - Dec. 2017*

Ph.D. in Computer Engineering

Advisor: Asst. Prof. Dr. Erman Ayday

### Epoka University

*Nov. 2014 - Jul. 2015*

M.Sc. in Computer Engineering

Thesis Title: *"On Fault-Tolerance and Intrinsic Universality of the Nubot Model"*

Thesis Advisor: Asst. Prof. Dr. Ilir Çapuni

### Epoka University

*Oct. 2010 - Jun. 2014*

B.Sc. in Computer Engineering

Thesis Title: *"New Host Specificity Index"*

Thesis Advisor: Asst. Prof. Dr. Ilir Çapuni

## RESEARCH INTERESTS

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Privacy, Security, Online Social Networks Analysis, Genomic Privacy, Machine Learning.

## WORK EXPERIENCE

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**Case Western Reserve University, Department of Computer and Data Sciences** Jan. 2018 - now

*Research Assistant*

*Cleveland, Ohio, USA*

- Developing new methods to quantify and mitigate profile matching risk across online social networks
- Developing new techniques to verify the output of statistical tests in a privacy-preserving way

**Case Western Reserve University, Department of Design & Innovation** Jun. 2020 - Aug. 2020

*Software Developer*

*Cleveland, Ohio, USA*

- Part of the team for developing *ShareTrace: A Smart Privacy-Preserving Contact Tracing Solution by Architectural Design During an Epidemic*
- Privacy and security analysis of ShareTrace
- Implementation of the algorithm to build the interaction graph and the propagation of the users' risk scores

### Ecole Polytechnique Fédérale de Lausanne (EPFL)

*Jun. 2019 - Sep. 2019*

*Research Intern at the Laboratory for Data Security (LDS)*

*Lausanne, Switzerland*

- Privacy-preserving solutions for workflow provenance

**Case Western Reserve University, Teaching and Learning Technologies** May. 2018 - Aug. 2018

*Remote Online Class Support*

*Cleveland, Ohio, USA*

- Providing support during online teaching on zoom

**Epoka University, Department of Computer Engineering**

Jun. 2014 - Jun. 2015

*Research Assistant*

*Tirane, Albania*

- Exploring more about Nubot Model
- Making Nubots fault tolerant (part of my Master Thesis)

**Surat Teknoloji**

Jul. 2013

*Summer Internship*

*Istanbul, Turkey*

- Building market management system in C#

## AWARDS AND HONORS

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- Student Travel Grant for PETS 2019
- Full Graduate Scholarship at Bilkent University, 2015-2017
- Full Graduate Scholarship at Epoka University, 2014-2015
- ICT Thesis of the Year Award (4 Year Bachelor), 2014
- Ranked 1<sup>st</sup> in Epoka Computer Engineering Department based on the graduation degree, 2014
- Full Undergraduate Scholarship at Epoka University, 2010-2014

## PUBLICATIONS

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- **A. Halimi** and E. Ayday. "Efficient Quantification of Profile Matching Risk in Social Networks", In Proceedings of the 25th European Symposium on Research in Computer Security (ESORICS), 2020.
- **A. Halimi** and E. Ayday. "Profile Matching Across Online Social Networks", In Proceedings of International Conference on Information and Communications Security (ICICS), 2020.
- I. Çapuni, **A. Halimi**, and D. Hitaj. "Towards Indestructible Molecular Robots", SOFSEM (Student Research Forum Papers / Posters), Pec pod Snezkou, Czech Republic, Jan. 2015.

## TEACHING EXPERIENCE

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**Case Western Reserve University, Department of Electrical Engineering and Computer Science**

Jan. 2018 - May 2019

*Teaching Assistant*

*Cleveland, Ohio, USA*

- EECS 356/456 - Data Privacy, Spring 2019
- EECS 233 - Introduction to Data Structures, Fall 2018
- EECS 600 - Data Privacy, Spring 2018

**Bilkent University, Department of Computer Engineering**

Sep. 2015 - Dec. 2017

*Teaching Assistant*

*Ankara, Turkey*

- CS 101 - Algorithms and Programming I, Fall 2015, Fall 2016, Spring 2017
- CS 102 - Algorithms and Programming II, Spring 2016, Fall 2017
- CS 577 - Data Privacy, Spring 2017

**Epoka University, Department of Computer Engineering**  
*Teaching Assistant*

Oct. 2014 - Aug. 2015  
*Tirane, Albania*

- CEN 254 - Data Structures, Spring 2015
- CEN 112 - C and C++ Programming, Spring 2015
- CEN 303 - Analysis of Algorithms, Fall 2014
- CEN 101 - Introduction to Algorithms and Programming, Fall 2014

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Python, Matlab, R, Java, PHP/HTML
<b>Protocols &amp; APIs</b>	Twitter and Foursquare API, XML, JSON
<b>Databases</b>	PostgreSQL, MySQL, Microsoft SQL
<b>Tools</b>	LaTex, Putty, RStudio, PythonXY, Microsoft Office
<b>Operating Systems</b>	Linux, Windows

## LANGUAGE SKILLS

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<b>Albanian</b>	native
<b>English</b>	fluent
<b>Turkish</b>	advanced
<b>Italian</b>	basic

## SERVICE

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### **Program Committee Member**

- IEEE S&P Student PC 2019
- IEEE S&P Poster Jury Member 2019

### **Subreviewer**

- PETS 2021, 2020, 2019
- ACM CCS 2019, 2018, 2016
- NDSS 2017
- AsiaCCS 2018, 2017, 2016