




Pier Paolo Tricomi

DATE OF BIRTH:
13/05/1995


CONTACT

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WORK EXPERIENCE

15/05/2020 – 30/09/2020

University research assistant

Mauro Conti

- Research in the cybersecurity areas

Padova, Italy

2014 – 2020

Private lessons in Padova (Italy)

- Private lessons in Mathematics, Computer Science, Chemistry, Physics to high school students

- Teaching to adults how to use a computer, Social Networks, Microsoft Office, Cloud Storage

01/07/2018 – 30/09/2018

Research in Computer Security

Gene Tsudik

Research visitor at University of California, Irvine. Development of two projects:

- AcuTherm: A Hybrid Side-channel Attack on Password Entry on External Keyboards. It was presented in Black Hat Asia 2019

-Deauthentication using a Bluetooth Low Energy beacon

Irvine, United States

01/04/2018 – 15/06/2018

150h Part-time collaboration with Università di Padova and ESU (Italy)

Support worker in ESU IT department. Maintenance of computers and network infrastructure

2016 – 2018

Tutoring for students with disabilities - Università di Padova (Italy)

-Study support and teaching of a study method for university exams

-Accompanying service and support during exams

-Help in teaching the use of a screen reader (JAWS)

02/2017 – 04/2017

200h Part-time collaboration with Università di Padova (Italy)

Support in the use of IT equipment and front office service for professors and students

26/06/2017 – 21/08/2017

Internship in an IT company for bachelor's degree course of study

Francesco Turra

Development of a management and control system for the licenses of Software Gestionale Vision made by the company VISIONEIMPRESA s.r.l. Pernumia (Padua, Italy). Tools like Visual Studio, C#, Microsoft IIS, SQL Server 2008, Visual FoxPro were used to develop the system

The results of the work were presented as a bachelor's degree thesis

Padova, Italy

02/2016 – 04/2016

200h Part-time collaboration with Università di Padova (Italy)

Support in the use of IT equipment and front office service for professors and students

TEACHING EXPERIENCE

01/10/2020 – CURRENT

Cybersecurity Principles and Practices

Teaching of ethical hacking in Computer Science Bachelor Degree: Cryptography, Web Vulnerabilities, Reverse Engineering, Pwning

EDUCATION AND TRAINING

01/10/2020 – CURRENT

PhD Student in Brain Mind and Computer Science

Univeristà degli studi di Padova

Field(s) of study

- Cybersecurity

02/10/2017 – 16/04/2020 – Padova, Italy

Master's Degree in Computer Science

Università degli studi di Padova

- Thesis: Player Recognition and Private Data Inference Exploiting Online-Gaming Data

- IT and related subjects (e.g computability and algorithms, cybersecurity, machine learning, artificial intelligence, networked system)

- Final Mark: 110/110 e Lode (full marks with honors)

01/02/2019 – 28/06/2019 – Amsterdam, Netherlands

Erasmus project

Exchange student at Vrije University

- Networked systems, coding and cryptography, Binary and Malware analysis, Software Testing, Machine Learning

01/10/2014 – 28/09/2017 – Padova, Italy

Bachelor's Degree in Computer Science

Università degli studi di Padova

Thesis: Deveolpment of a management and control system for software licenses.

-Mathematical subjects and IT subjects (e.g operative systems, computer programming, database, software development)

-Final Mark: 110/110 e Lode (full marks with honors)

01/09/2009 – 10/07/2014 – Padova, Italy

Secondary School Diploma

ITIS Francesco Severi

-Final mark: 99/100

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
C1

Reading
C1

**Spoken
production**
C1

**Spoken
interaction**
C1

Writing
C1

PUBLICATIONS

Publications

- Conti, Mauro, Pier Paolo Tricomi, and Gene Tsudik. "DE-auth of the Blue! Transparent De-authentication Using Bluetooth Low Energy Beacon." In *European Symposium on Research in Computer Security*, pp. 277-294. Springer, Cham, 2020.
- Conti, Mauro, and Pier Paolo Tricomi. "PvP: Profiling Versus Player! Exploiting Gaming Data for Player Recognition." In *International Conference on Information Security*, pp. 393-408. Springer, Cham, 2020.
- Kaczmarek T., Ozturk E., Tricomi P., Tsudik G., AcuTherm: A Hybrid Acoustic/Thermal Side-Channel Attack on Password Entry with External Keyboards. (under submission)

HONOURS AND AWARDS

Honours and awards

"Mille e una Lode" Award, 1000€ merit-based award to excellent students (around 3%) in each degree course. 30/10/2016

ORGANISATIONAL SKILLS

Organisational skills

- Excellent organizational skills acquired during the university period managing exams, group works, internship projects, and research projects
- Excellent time management skills developed in reconciling hours dedicated to tutoring, private lessons, university collaborations, exams preparation, and university projects

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Excellent ability to work in group gained through university and research projects, in which collaboration between colleagues was fundamental to reach the goal
- Excellent communication skills with multiple types of users such as university teachers, employees office, directors, colleagues and students acquired during the university and working period
- Great communication, relational and teaching skills with students and adults acquired during the private lessons

JOB-RELATED SKILLS

Job-related skills

- Great knowledge of C/C++, Java, assembly, C#, python, Microsoft Development Suite, HTML, CSS, JavaScript, PHP, nodeJS, MATLAB, relational/ non-relational/ document-oriented databases
- Great ability to learn new programming languages in a short time
- Great knowledge of machine learning, deep learning, networking systems, cloud systems
- Great knowledge in cybersecurity area: network security, privacy, reverse engineering, applied cryptography, blockchain functioning and Solidity programming
- Good knowledge of Cordova and Firebase for multiplatform apps development

OTHER SKILLS

Other skills

- Ability to synthesize and explain through schemes / diagrams / slides
- Musician from the age of eight, good knowledge of music theory, guitar and piano
- Good sports skills, with several years of amateur soccer experience
- Good skills in electronic sports, with different experiences in amateur tournaments

PASSIONS

Passions

I really love music. I've been playing guitar since I was 8 years old and I used to be the singer of a rock band. I'm currently taking piano lessons.

I played football for many years, mostly to stay with friends, and for the same reason, I like playing online multiplayer videogames.

I prefer teamwork rather solo working, but if necessary, I am totally independent and able to resolve my problems on my own.