

# DESPOINA TOUSKA

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## PROFILE

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Currently pursuing my Master's in Artificial Intelligence (AI), I bring three years of research engineering experience. Skilled in programming languages including Python, C, C++, JavaScript, and SQL, I'm deeply passionate about exploring AI solutions, especially in Computer Vision. My focus is on harnessing AI's potential to make tangible real-world contributions and driving advancements in technology and problem-solving.

## EDUCATION

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### MS Artificial Intelligence

*University of Amsterdam*

September 2023 - Present

*Amsterdam, the Netherlands*

- Awards: Qualcomm Diversity in AI Fellowship ([info](#))

### M.Eng in Electrical and Computer Engineering

*Aristotle University of Thessaloniki*

October 2013 - April 2020

*Thessaloniki, Greece*

- Cumulative GPA: 8.35/10
- Relevant Coursework: Pattern Recognition, Parallel & Distributed Systems, Probabilities & Statistics, Data Structures, Structured Programming, Robotics, Database Systems
- Thesis: Video Forgery Detection using Autoencoder and Recurrent Neural Networks ([info](#))

## EXPERIENCE

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### Centre for Research and Technology Hellas (CERTH)

*Machine Learning Research Engineer*

September 2020 - July 2023

*Thessaloniki, Greece*

- Developed data science prototype applications within EU Horizon projects.
- Created services to integrate Apache Kafka/RabbitMQ into existing architecture to allow event-driven data flow.
- Co-authored 9 scientific papers presented at conferences and workshops, focusing on object detection, object tracking, and activity recognition.

### Instituto Superior de Engenharia do Porto (ISEP)

*Software Developer Intern*

October 2019 - February 2020

*Porto, Portugal*

- Create a hand gesture dataset comprising video and key-point formatted data.
- Developed a prototype web application facilitating data collection, training, and real-time prediction of sign language translation to text via webcam input.
- Utilized JavaScript for the frontend and implemented a Flask API for backend functionality.

### Centre for Research and Technology Hellas (CERTH)

*Machine Learning Engineer Intern*

March 2018 - May 2018

*Thessaloniki, Greece*

- Contributed to the research for a multimedia forensics scientific paper.
- Developed ML models and evaluated them for specific Computer Vision and Natural Language Processing tasks.

## INDICATIVE PUBLICATIONS

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- **D. Touska**, K. Gkountakos, K. Ioannidis, T. Tsikrika, S. Vrochidis, I. Kompatsiaris. *Graph-Based Data Association in Multiple Object Tracking: A Survey*. MMM2023. 2023.
- Gkountakos, K., **Touska, D.**, Ioannidis, K., Tsikrika, T., Vrochidis, S., & Kompatsiaris, I. *Spatio-temporal activity detection and recognition in untrimmed surveillance videos*. ICMR. 2021.
- Gkountakos, K., Galanopoulos, D., **Touska, D.**, Ioannidis, K., Vrochidis, S., Mezaris, V., & Kompatsiaris, I. *ITI-CERTH participation in ActEV and AVS Tracks of TRECVID 2021*. TRECVID. 2021.
- Zampoglou, M., Markatopoulou, F., Mercier, G., **Touska, D.**, Apostolidis, E., Papadopoulos, S., ... & Kompatsiaris, I. *Detecting tampered videos with multimedia forensics and deep learning*. MMM2019. 2019.

## SKILLS

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**Languages:** English (fluent, C2, IELTS: 7.5/9), Greek (native), German (beginner, A2).

**Programming Languages:** Python (advanced), C/C++, JavaScript, HTML, CSS, SQL.

**DL Libraries:** PyTorch, Keras, Tensorflow, TensorFlow.js, OpenCV, NumPy, Pandas, Sci-Kit Learn.

**Miscellaneous Tools:** Docker, Apache Kafka, RabbitMQ, REST API, WebSocket API, Postman, Git, GitLab.