

# DESPOINA TOUSKA

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## PROFILE

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I am a Machine Learning Research Engineer with three years of expertise in researching and developing AI software. My skills include a strong foundation in programming languages such as Python, C, C++, JavaScript, and SQL. I am passionate about creating AI solutions, particularly in the realms of computer vision and other diverse domains.

## EDUCATION

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### University of Amsterdam

*MS Artificial Intelligence*

Amsterdam, the Netherlands

*September 2023 - Present*

- Awards: Qualcomm Diversity in AI Fellowship ([for more information](#))

### Aristotle University of Thessaloniki

*M.Eng in Electrical and Computer Engineering*

Thessaloniki, Greece

*October 2013 - April 2020*

- Cumulative GPA: 8.35/10
- Relevant Coursework: Pattern Recognition, Parallel & Distributed Systems, Probabilities & Statistics, Data Structures, Structured Programming, Robotics, Database Systems

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

*Collaboration for thesis completion*

Thessaloniki, Greece

*November 2018 - September 2019*

- Thesis: Video Forgery Detection using Autoencoder and Recurrent Neural Networks ([link](#))
- Grade: 10/10

## EXPERIENCE

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

*Machine Learning Research Engineer*

Thessaloniki, Greece

*September 2020 - Present*

- Actively contributed to the publication of 8 scientific papers on the topics of object detection, object tracking, and activity recognition at conferences and workshops.
- Managing Data Science tasks within EU Horizon projects.

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

*Software Developer Intern*

Porto, Portugal

*October 2019 - February 2020*

- Created a hand gesture dataset with data in a video format and a key-point format using CNNs.
- Developed a prototype web application for data collection, training, and prediction of sign language translation to text through webcam, using Javascript for the frontend and Flask API for the backend.

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

*Machine Learning Engineer Intern*

Thessaloniki, Greece

*March 2018 - May 2018*

- Contributed to the research for a multimedia forensics scientific paper.
- Developed and evaluated ML models for 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.

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

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