# Deniz Engin

📱 +33769012293 | ✉ denizengin255@gmail.com

🌐 Website | 🎓 Google Scholar | 🐙 GitHub | 💼 Linkedin

## Research Interests

🔖 Computer vision, natural language processing, multimodal learning, video understanding, video question answering

## Education

**Sep. 2020 – Jun. 2024** 🔖 **Inria & University of Rennes** - Rennes, France
PhD, Computer Science
**Thesis:** Video question answering with limited supervision
**Advisor:** Yannis Avrithis
**Jury members:** Ivan Laptev (Reviewer), Matthieu Cord (Reviewer), Josef Sivic, Karteek Alahari, Luce Morin

**Sep. 2014 – Nov. 2017** 🔖 **Istanbul Technical University** - Istanbul, Türkiye
M.Sc., Electronics Engineering
Participated in a 5-month Erasmus exchange program at KU Leuven, Belgium

**Sep. 2009 – Jul. 2014** 🔖 **Istanbul Technical University** - Istanbul, Türkiye
B.Sc., Electronics Engineering
Included a 1-year English language program

## Professional Experiences

**Sep. 2020 – Feb. 2024** 🔖 **PhD Student** Inria – Rennes, France
Proposed parameter-efficient zero-shot and few-shot VideoQA: Publication [1]
Proposed a knowledge-based VideoQA method collaboration with InterDigital: Publication [2]

**Sep. 2020 – Jun. 2022** 🔖 **Researcher** InterDigital – Rennes, France
Worked on multimodal video understanding projects - Video Captioning and VideoQA: Publication [2]

**Jan. 2018 – Mar. 2020** 🔖 **R&D Engineer Specialist** Yapı Kredi Technology – Istanbul, Türkiye
Developed offline signature detection & verification system: Publication [3]
Developed multimodal document classification system: Publication [4]

**Jul. 2017 – Sep. 2017** 🔖 **Research Intern** EPFL Signal Processing Lab (LTS5) – Lausanne, Switzerland
Cross-Pose Facial Expression Recognition via Transfer Learning: Publication [5]

**Jul. 2016 – Jan. 2018** 🔖 **Researcher** ITU SiMiT Lab – Istanbul, Türkiye
Single Image Dehazing via CycleGAN: Publication [6]
Facial Expression Recognition via Transfer Learning: Publication [7]

## Selected Publications

1. **D. Engin** and Y. Avrithis, "Zero-shot and few-shot video question answering with multi-modal prompts," in *Proc. ICCV Workshops*, 2023. **[Oral Presentation]**.

2. **D. Engin**, F. Schnitzler, N. Q. Duong, and Y. Avrithis, "On the hidden treasure of dialog in video question answering," in *Proc. ICCV*, 2021.

3. **D. Engin***, A. Kantarci*, S. Arslan, and H. K. Ekenel, "Offline signature verification on real-world documents," in *Proc. CVPR Workshops*, 2020.

4. **D. Engin**, E. Emekligil, B. Oral, S. Arslan, and M. Akpınar, "Multimodal deep neural networks for banking document classification," in *Proc. IMMM*, 2019. **[Best Paper Award]**.

5. **D. Engin**, C. Ecabert, H. K. Ekenel, and J.-P. Thiran, "Face frontalization for cross-pose facial expression recognition," in *Proc. EUSIPCO*, 2018.

6. **D. Engin***, A. Genç*, and H. K. Ekenel, "Cycle-Dehaze: Enhanced cyclegan for single image dehazing," in *Proc. CVPR Workshops*, 2018.

7. **D. Engin** and H. K. Ekenel, "Facial expression pair matching," in *Proc. SIU*, 2017.

## Patents

- Quang Khanh Ngoc Duong, **Deniz Engin**, Francois Schnitzler, Yannis Avrithis. "System and method for question answering." U.S. Patent Application 18/292,252, filed Jul. 27, 2022.

- **Deniz Engin**, Yannis Avrithis, Quang Khanh Ngoc Duong, Francois Schnitzler. "Device and method for question answering." U.S. Patent Application 18/280,746, filed Mar. 8, 2022.

## Skills

- **Programming and Development Tools:** Python, C, Unix Shell Scripting, SQL, Git, Docker
- **Deep Learning Libraries:** Pytorch, TensorFlow, Keras
- **Language:** Turkish (native), English (fluent), French (beginner)

## Summer Schools & Symposiums

ICVSS 2022 ∎ International Computer Vision Summer School, Sicily, Italy. (10 -– 16 Jul.)

ELLIS 2021 ∎ ELLIS Doctoral Symposium, Tübingen, Germany. (27 Sep. -– 1 Oct.)

PAISS 2021 ∎ PRAIRIE/MIAI Artificial Intelligence Summer School, Online. (5 – 9 Jul.)

## Awards and Achievements

2019 ∎ Best Paper Award at IMMM 2019

2018 ∎ ECCV Woman in Computer Vision Workshop Travel Grant

2016-2017 ∎ Research Scholarship from National Research & Technical Council of Türkiye

2015-2016 ∎ Exchange Student Grant by Erasmus Program

## Reviewer Activities

2023 ∎ CVPR, ICCV

2022 ∎ ECCV