

Konstantinos Tsinganos

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🔗 <https://github.com/kostastsing>

EXPERIENCE

Software Engineer at Metargus startup, Patras, Greece **Mar, 2022 – Now**

Metargus creates software for automated live streaming and game analysis powered by computer vision. My work involves:

- Implementation of computer vision modules, e.g. camera calibration, OCR, background subtraction
- Porting research code into production-ready machines (code optimization, GPU utilization, communication via REST APIs)

Teaching Assistant at CEID **Nov, 2019 – Jun, 2021**

Department of Computer Engineering and Informatics, University of Patras, Greece

- **Intelligent Systems and Robotics** (Spring Semester of 2020-2021)
- **Object-Oriented Programming Laboratory** (Spring Semester of 2019-2020)
- **Databases Laboratory** (Fall Semesters of 2019-2020 and 2020-2021)

FORMAL EDUCATION

Ph.D. in Sim2Real Methods for Visual-based Imitation Learning **Mar, 2022 – Now**

Research Interests: Robot Learning, Imitation Learning, Computer Vision

Department of Computer Engineering and Informatics, University of Patras, Greece

M.Sc. in Data-Driven Computing and Decision Making **Oct, 2019 – Sep, 2021**

Department of Computer Engineering and Informatics, Department of Mathematics, University of Patras, Greece

ECTS: 90

Grade: 9.46 / 10

Thesis: Sim2Real Methods for Visual-based Imitation Learning

Supervisors: Prof. Evangelos Dermatas, Dr. Konstantinos Chatzilygeroudis

Integrated Master in Electrical and Computer Engineering **Sep, 2012 – Apr, 2019**

Department of Electrical and Computer Engineering, University of Patras, Greece

ECTS: 300

Grade: 7.79 / 10

Thesis: Registration of Satellite Images, **Supervisor:** Prof. Athanassios Skodras

PUBLICATIONS

Peer-Reviewed Journal Papers

2022 Behavior policy learning: Learning multi-stage tasks via solution sketches and model-based

controllers, Konstantinos Tsinganos, Konstantinos Chatzilygeroudis, Dennis Hadjivelichkov, Theodoros Komninos, Evangelos Dermatas, Dimitrios Kanoulas, *Frontiers in Robotics and AI*, 291

FURTHER EDUCATION

Natural Language Processing Specialization - Coursera **Oct, 2020**
Credential ID: MB2KXZBGEZ8K

Deep Learning Specialization - Coursera **Sep, 2020**
Credential ID: 8A5VZU964M5U

HelloAIRIS 2020 - Artificial Intelligence in Healthcare **Jun, 2020 – Aug, 2020**
Funded by EIT Health and organized by GE Healthcare, KTH Royal Institute of Technology Stockholm and LEITAT

Predictive Analytics for Business Nanodegree - Udacity **May, 2020**
Confirm program completion at <https://graduation.udacity.com/confirm/AME4LFAM>

TECHNICAL SKILLS

Programming Languages	C++, Python, Java, MATLAB, SQL, HTML, CSS, JavaScript, VBA
Libraries and Frameworks	PyTorch (Python & C++ distros), OpenCV, FFmpeg (CLI & C++ distro), matplotlib, scikit-learn, pandas, robot_dart, Microsoft C++ REST SDK, JDBC
Version Control	Git, GitHub
Operating Systems	Linux, Windows
Office Applications	L ^A T _E X, Microsoft Office Suite
Image/Video Editing Software	Gimp, Inkscape, Openshot, Shotcut
Website Building	WordPress

LANGUAGES

Greek Native Speaker
English University of Cambridge, First Certificate in English, Level B2

ACADEMIC PROJECTS

Sim2Real methods for Visual-based Imitation Learning **Nov, 2020 – Sep, 2021**
M.Sc. thesis, Supervisors: Prof. Evangelos Dermatas, Dr. Konstantinos Chatzilygeroudis

Pre-processing of datasets from FrailSafe EU project and utilization of machine learning algorithms and data visualization tools in Python **Dec, 2019 – Feb, 2020**
Project for the postgraduate course of *Analysis and Management of Spatial-Temporal Data*

Registration of Satellite Images Diploma thesis, Supervisor: Prof. Athanassios Skodras	Oct, 2017 – Feb, 2019
Design of a database for the warehouse of a store in SQL and JDBC Project for the undergraduate course of <i>Databases</i>	May, 2017 – Jun, 2017
Implementation of a Logic Gates Simulator in Java Project for the undergraduate course of <i>Object-Oriented Technology</i>	Dec, 2015 – Jan, 2016
Implementation of a RPN Calculator in Java Project for the undergraduate course of <i>Object-Oriented Technology</i>	Oct, 2015 – Nov, 2015

PERSONAL INTERESTS

Byzantine Music (Diploma in Ecclesiastical and Byzantine Music)
 Digital Photography
 Cycling
 Observational Astronomy