

# CHRISTOS PETRIDIS

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## RESEARCH INTERESTS

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Network Science, Data Science, Machine Learning, Spatio-Temporal Forecasting, Information Retrieval, Knowledge Discovery, Operations Research

## EDUCATION

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**Temple University, United States**

*Philadelphia, PA, USA*

**Ph.D. in Computer and Information Sciences, GPA: 3.93/4.0**

*Aug 2024 – Present*

DABI Lab (Data Analytics and Biomedical Informatics)

Advisor: Professor Zoran Obradovic

**University of Thessaly, Greece**

*Volos, Greece*

**5-year Integrated Master in Electrical and Computer Engineering (300 ECTS)**

*Sep 2019 – Jun 2024*

**GPA: 8.23/10.0**

- Ranked 4th in my class (only 18 students graduated from my entry year (167 admitted students) until the graduation ceremony in July 2024).
- Ranked 12th among the 114 graduates (**Top 10%**) of the 2023-2024 academic year.

*Thesis: "Detecting Hull Fouling using Machine Learning Algorithms trained on Ship Propulsion Data", Advised by Professor Michael Vassilakopoulos*

## PUBLICATIONS

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### Conference Publications

[C2] [Christos Petridis](#), Abhudaya Shrivastava, Marijana Vacic, Zoran Obradovic.

**"PixelPath: Predicting UAV Trajectories in GPS-Restricted Environments Using Image Feature Extraction and Machine Learning"**. Proceedings of the 21st International Conference on Artificial Intelligence Applications and Innovations (IFIP AIAI 2025 Springer proceedings). *in press*

[C1] [Christos Petridis](#), Michael Vassilakopoulos.

**"Detecting Hull Fouling using Machine Learning Algorithms trained on Ship Propulsion Data to Improve Resource Management and Increase Environmental Benefits"**. Proceedings of the 8th International Conference on Smart Data and Smart Cities (SDSC 2024). *Best paper award in Smart Green category.*

## PROFESSIONAL EXPERIENCE

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**Temple University**

**Aug 2024 – Present**

*Graduate Research Assistant*

*Philadelphia, PA, USA (on-site)*

- Working on estimating the location of a UAV in GPS-denied environments.
- Working with spatio-temporal data and graph neural networks to estimate the duration and location of a power outage.

**Angelicooussis Group (Maran Tankers Management)**

**Jun 2023 – Sep 2023 (4 mo.)**

*Data Scientist Intern, Energy Efficiency Department*

*Athens, Greece (on-site)*

- Developed a framework to extract text from company's documents and classify them into categories using NLP techniques (fine tuned pre-trained language models like DistilBERT, XLNet etc.).
- Performed fleet performance prediction & evaluation using multi-modal data related to company's ships.
- Performed exploratory data analysis to select the best anti-fouling hull paint examining different factors for the whole fleet.
- Worked with the R&D team on estimation of added resistance for vessels, aiming to reduce environmental impact and improve fuel management (Integrated Master's thesis collaboration).

**DevN Software Company****Jul 2022 – Nov 2022 (5 mo.)****Software Engineer Intern***Volos, Greece (on-site)*

- Assisted in development of the front-end of two mobile (Android) applications using Java.
- Collaborated with team members using version control systems such as Git to organize modifications and updates.
- Worked with Google Firebase to manage user inputted data across the mobile applications.
- Assisted in the backend development of a web app (API service) utilizing Node.js and Express.js

**Swollet Technologies Limited****Feb 2022 – Apr 2022 (3 mo.)****Software Engineer Intern***Dublin, Ireland (remote, part time)*

- Implemented some REST APIs for the web application (Node.js, Express.js and Firebase-Firestore)

**TEACHING EXPERIENCE**

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**Teaching Assistant for ECE311 Database Systems I***Volos, Greece**Electrical and Computer Engineering Department, University of Thessaly**Fall 2023***Teaching Assistant for ECE326 Object Oriented Programming***Volos, Greece**Electrical and Computer Engineering Department, University of Thessaly**Spring 2023***TECHNICAL SKILLS**

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**Languages & Frameworks:** Python, Java, R, SQL, PyTorch, Scikit-Learn, C, MATLAB and some web frameworks**Technologies:** Unix CLI, LaTeX, Git (Version Control), Android Studio, Xcode**LANGUAGES**

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English (fluent)

German (basic)

Greek (native)