

Sotirios Stamnas

D2.14 Zeeman Building – University of Warwick – Coventry, UK

GitHub | LinkedIn | Homepage | Google Scholar

EDUCATION

PhD in Mathematics of Real-World Systems (MathSys) | *University of Warwick* September 2023 - Present

- Research focus: Detecting Deepfakes and Synthetic Media for Multimedia Forensics
- Supervisors: Prof. *Victor Sanchez* and Prof. *Vitomir Struc*

MSc in MathSys (Distinction) | *University of Warwick* September 2022 - September 2023

- Research: Fairness in Multi-Objective Reinforcement Learning, supervised by Prof. *Paolo Turrini* and *Ann Nowe*

Master of Physics (1st Class) | *The University of Manchester* September 2018 - June 2022

- Master's project: Applications of Statistical Physics to Epidemiology, supervised by Prof. *Tobias Galla*

Summer Computational Physics Course | *Aristotle University of Thessaloniki* June - September 2020

- Research: Simulating the Wealth Distribution in Societies, supervised by Prof. *Panos Argyrakis*

TEACHING EXPERIENCE

Graduate Teaching Assistant | *University of Warwick* September 2023 - Present

- CS342 Machine Learning, CS255 Artificial Intelligence, CS131 Mathematics for Computer Scientists 2

PUBLICATIONS

- **DiffFake: Exposing Deepfakes using Differential Anomaly Detection.** [Sotirios Stamnas](#), Victor Sanchez. In *IEEE/CVF Winter Conference on Applications of Computer Vision Workshops (WACVW)*, 2025. [[link](#)]
- **DecepTIV: A Large-Scale Benchmark for Robust Detection of T2V and I2V Synthetic Videos.** [Sotirios Stamnas](#), Victor Sanchez, Vitomir Struc. Under review: *NeurIPS Datasets and Benchmarks*, 2025. [[link](#)]

AWARDS AND FUNDING

- EurAI travel grant to attend the ESSAI & ACAI Summer School, University of Ljubljana, 2023
- EPSRC MSc and PhD studentship at MathSys II CDT, University of Warwick, 2022
- 1st place in the AI Sponsor challenge organized by *fuzzylabs.ai*, part of the *GreatUniHack* Hackathon, 2020
- 2nd place in the Game Development challenge, part of the *GreatUniHack* Hackathon, 2020

SELECTED TALKS

Junior Applied Maths Seminar (JAMS) | *University of Oxford* June 2025

Talk: DecepTIV: A Large-Scale Benchmark for Robust Detection of T2V and I2V Synthetic Videos

AI4MFDD Workshop, WACV 2025 | *JW Marriott, Tucson, Arizona* February 2025

Talk: DiffFake: Exposing Deepfakes using Differential Anomaly Detection

Statistics, Probability Analysis and Applied Maths (SPAAM) Seminar | *University of Warwick* June 2024

Talk: Deepfake Detection Using Anomaly Detection Techniques

ADDITIONAL ACTIVITIES

- SPAAM seminar organizer, 2025-Present
- Student Staff Liaison Committee (SSLC) representative 2022-Present
- Executive committee of Warwick Piano Society, 2025-Present

SKILLS

- **Programming Languages & Tools:** Python, C++, Julia, PyTorch, Scikit-learn, NumPy, SciPy, Pandas, Matplotlib, OpenCV, Transformers, Diffusers, Gym, Git, LaTeX, ffmpeg
- **Technical:** High-Performance Computing (HPC) clusters, CUDA, Microsoft Azure, Linux systems, SLURM job scheduling, Python virtual environments (venv, conda), API integration