Mihaela Cătălina Stoian

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EDUCATION

University of Oxford October 2021 - present
Oxford, UK
DPhil student in Computer Science
Supervised by Prof. Thomas Lukasiewicz
Research areas: Neuro-symbolic AI, Machine Learning, Generative modelling.

The University of Edinburgh September 2014 - May 2019
Edinburgh, UK
Master of Informatics with Honours, First Class

EXPERIENCE

Research Intern at FiveAI 2020 - 2021
Oxford, UK
Supervisor: Dr. Tommaso Cavallari
Topic: Detecting Reflective Symmetries in 3D Models, Computer Vision
Patent application and paper: Recurrently Estimating Reflective Symmetry Planes from Partial Pointclouds (arXiv 2021, presented at the CVPR 2021 Workshop on 3D Vision and Robotics)

Research Assistant at The University of Edinburgh 2019
Supervisor: Prof. Sharon Goldwater
Topic: Speech-to-Text Machine Translation
Publication: Analyzing ASR pretraining for low-resource speech-to-text translation (in Proc. of ICASSP 2020).

Class Tutor at The University of Edinburgh 2017 - 2019
Courses: *Processing Formal and Natural Languages*; *Discrete Mathematics*; and *Algorithms, Data Structures and Learning.*

Student Summer Research Fellow at ETH Zurich 2018
Supervisors: Prof. Martin Vechev, Assistant Prof. Dana Drachsler Cohen
Topic: Program Behaviour Synthesis

LFCS Research Intern at The University of Edinburgh 2017
Supervisor: Prof. Kousha Etessami
Topic: Branching Markov Processes

SELECTED PUBLICATIONS

Mihaela C. Stoian, Salijona Dyrmishi, Maxime Cordy, Thomas Lukasiewicz, and Eleonora Giunchiglia.
How Realistic Is Your Synthetic Data? Constraining Deep Generative Models for Tabular Data, in Proc. of ICLR 2024.

Mihaela C. Stoian, Eleonora Giunchiglia, and Thomas Lukasiewicz.
Exploiting T-norms for Deep Learning in Autonomous Driving, in Proc. of NeSy 2023.

Eleonora Giunchiglia, Mihaela C. Stoian, Salman Khan, Fabio Cuzzolin, and Thomas Lukasiewicz.
ROAD-R: The Autonomous Driving Dataset with Logical Requirements, in Machine Learning, May 2023.

Mihaela C. Stoian, Sameer Bansal, and Sharon Goldwater.
Analyzing ASR pretraining for low-resource speech-to-text translation, in Proc. of ICASSP 2020.

OTHER ACTIVITIES

Organiser for the ROAD++: The Second Workshop & Challenge on Event Detection for Situation Awareness in Autonomous Driving, hosted by ICCV 2023

Organiser for the ROAD-R 2023: the Road Event Detection with Requirements Challenge, hosted by NeurIPS 2023

Reviewer for conferences and workshops: ICPR 2020, ROAD++ workshop hosted by ICCV 2023, RepL4NLP workshop hosted by ACL 2022, NeSy-GeMs hosted by ICLR 2023, NeSy 2023, survey track of IJCAI 2024

Reviewer for journals: Machine Learning

Google CodeU Program 2016

SCHOLARSHIPS AND GRANTS

EPSRC Scholarship for doctoral studies October 2021 - March 2025

St Hilda's College Travel for Research Grant May 2023, February 2024

TOPICS

Neuro-symbolic AI
Generative Modelling
Computer Vision, 3D Shape Completion
Speech Processing, Neural Speech-to-Text Machine Translation