

# Yiming Ma

## PROFILE

As a PhD candidate at the Mathematics for Real-World Systems Centre for Doctoral Training at the University of Warwick, my research focuses on multimodality in computer vision and its applications, such as crowd counting and driver monitoring systems. I am passionate about bridging mathematics and deep learning to solve real-world problems.

## PUBLICATIONS

- Y. Ma, V. Sanchez and T. Guha, "FusionCount: Efficient Crowd Counting Via Multiscale Feature Fusion," 2022 IEEE International Conference on Image Processing (ICIP), Bordeaux, France, 2022, pp. 3256-3260, doi: 10.1109/ICIP46576.2022.9897322.

## EXPERIENCE

RESEARCH ASSISTANT, FORD; COVENTRY, UK – 2021-PRESENT

This research projects aims to build an intelligent interior sensing systems for monitoring and recognising drivers' activities from heterogeneous multi-view, multimodal data.

## EDUCATION

PH.D. IN MATHEMATICS OF SYSTEMS, UNIVERSITY OF WARWICK; COVENTRY, UK – 2021 - PRESENT

- Supervisors: Dr. [Victor Sanchez](#) & Dr. [Tanaya Guha](#).

MSC IN MATHEMATICS OF SYSTEMS UNIVERSITY OF WARWICK; COVENTRY, UK – 2020 - 2021

- Research: Prediction of Oestrus Intervals for Guide Dogs (supervisor: Prof. [Colm Connaughton](#)); Digital Twins of Urban Crowds (supervisors: Dr. [Victor Sanchez](#) & Dr. [Tanaya Guha](#)).

BSC IN MATHEMATICS AND APPLIED MATHEMATICS, SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY, SHENZHEN, CHINA – 2016 - 2020

- Research: Contraction Methods in Composite Optimisation (supervisor: Prof. [Bingsheng He](#)).
- Awards: the 1st (2019), 2nd (2017), 3rd (2018) Class of the Merit Student Scholarships.

## SKILLS

- Proficient in Python programming, with experience using PyTorch for research.
- Native Chinese speaker and fluent in English.