

# Michele Tufano

## AI/COMPUTER VISION ENGINEER

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## EXPERIENCE

May 2023 - Present

**Research affiliate** *Massachusetts Institute of Technology*

- Led the research project to perform data-driven analysis in large dataset, using webscraping, SQL, NLP, BERT, LLM, RAG, and resulting in publication on Nature Foods.

January 2021 – January 2025

**Ph.D. Candidate in AI and Computer Vision** *Wageningen University and Research*

- Trained and optimized deep learning models (CNN, LSTM, Transformers) for video classification to predict human eating behavior and count eating and drinking events with 96% accuracy.
- Designed and implemented algorithms for video analysis to count bites with 80% accuracy, for object and event recognition using OpenCV, TensorFlow, Keras, YOLO, and Mediapipe key points to track movement in Python, resulting in a publication on Frontiers in Nutrition
- Developed software for video data collection using object-oriented programming in Python and JavaScript and performed dataset annotation using CVAT.
- Supervised MSc student to train CNN and GANs model for emotion detection in children.
- Lecturer for Data Science and Machine Learning course for MSc students in Nutrition and Health

September 2019 – September 2020

**Research affiliate and Data Scientist** *University of Illinois at Chicago*

- Performed statistical analysis of clinical large dataset in schizophrenia patients using R.

January 2018 – July 2018

**Research affiliate** *A\*Star, Genome Institute of Singapore*

- Performed bioinformatics analysis on SNPs genotyping and GWAS in B-cell lymphoma using bash and Linux

## EDUCATION

2021-2025

**Ph.D. Degree** AI for innovations in eating behavior, Wageningen University and Research

2016-2018

**Honors MSc Degree** Top Master Biomolecular Sciences, University of Groningen

2013-2016

**BSc Degree** Biotechnology, Sapienza University of Rome

## AWARDS

2023

**MIT Visiting Ph.D. Student** Senseable City Lab

2023

**VLAG Ph.D. Fellowship** Wageningen University and Research

2021

**Pride and Prejudice Science Slam Award** 4TU, Dutch Design Week

2018

**Singapore International Pre-Graduate Award** A\*Star, Genome Institute of Singapore

2018

**Master's Honours Programme 'Leadership: making the difference'** University of Groningen

## SKILLS

Project management, Communication, Leadership, Problem-solving, HTML, CSS, React.js, Typescript, Full-stack developments