Hazel Doughty

⚲ Leiden, Netherlands ✉ h.r.doughty@liacs.leidenuniv.nl 🔗 hazeldoughty.github.io 🎓 Google Scholar

Research Interests

Computer Vision, Video Understanding, Fine-Grained, Learning with Limited Labelled Data, Multimodal Learning

Research Experience

Assistant Professor (Universitair Docent 2), LIACS, Leiden University — Sep 2023 - Present
- Supervising PhD and Masters students in the Vision and Imaging cluster.

Post-Doctoral Researcher, Informatics Institute, University of Amsterdam — Dec 2020 - Aug 2023
- Working with Prof. Cees Snoek and 3 PhD students on topics in video understanding, including self-supervised learning, multi-modal learning, open-set and domain adaptation.

Visiting Researcher, INRIA, Paris — Jan 2019 - March 2019
- Visited the Willow Research Group and worked with Prof. Ivan Laptev on understanding adverbs from instructional videos.

Education

PhD University of Bristol, Computer Science — Sept 2016 - Sep 2020
- Supervisors: Prof. Walterio Mayol-Cuevas, Prof. Dima Damen
- Title: Skill Determination from Long Videos
- Examiners: Prof. Josef Sivic and Prof. William T. Freeman
- EPSRC DTP Funding & EPSRC Project Glance (EP/N013964/1)

MEng University of Bristol, Computer Science — Sep 2012 - June 2016
- First Class Degree - Top Ranked Graduate

Publications

HD-EPIC: A Highly-Detailed Egocentric Video Dataset — CVPR 2025
Toby Perrett, Ahmad Darkhalil, Saptarshi Sinha, Omar Emara, Sam Pollard, Kranti Parida, Kaiting Liu, Prajwal Gatti, Siddhant Bansal, Kevin Flanagan, Jacob Chalk, Zhifan Zhu, Rhodri Guerrier, Fahd Abdelazim, Bin Zhu, Davide Moltisanti, Michael Wray, Hazel Doughty, Dima Damen

Day2Dark: Pseudo-Supervised Activity Recognition Beyond Silent Daylight — IJCV 2025
Yunhua Zhang, Hazel Doughty, Cees G. M. Snoek

LocoMotion: Learning Motion-Focused Video-Language Representations — ACCV 2024 / Oral
Aozhu Chen, Hazel Doughty, Xirong Li, Cees G. M. Snoek

Beyond Coarse-Grrained Matching in Video-Text Retrieval — ACCV 2024 / Oral
Aozhu Chen, Hazel Doughty, Xirong Li, Cees G. M. Snoek

SelEx: Self-Expertise In Fine-Grained Generalized Category Discovery — ECCV 2024
Sarah Rastegar, Hazel Doughty, Cees G. M. Snoek

Low-Resource Vision Challenges for Foundation Models — CVPR 2023
Yunhua Zhang, Hazel Doughty, Cees G. M. Snoek

Learn to Categorize or Categorize to Learn? Self-Coding for Generalized Category Discovery — NeurIPS 2023
Sarah Rastegar, Hazel Doughty, Cees G. M. Snoek

Learning Unseen Modality Interaction — NeurIPS 2023
Yunhua Zhang, Hazel Doughty, Cees G. M. Snoek

Tubelet-Contrastive Self-Supervision for Video-Efficient Generalization — ICCV 2023
Fida Mohammad Thoker, Hazel Doughty, Cees G. M. Snoek

How Severe is Benchmark-Sensitivity in Video Self-Supervised Learning? — ECCV 2022
Fida Mohammad Thoker, Hazel Doughty, Piyush Bagad, Cees G. M. Snoek.

How Do You Do It? Fine-Grained Action Understanding with Pseudo-Adverbs — CVPR 2022
Hazel Doughty, Cees G. M. Snoek

Audio-Adaptive Activity Recognition Across Video Domains — CVPR 2022
Yunhua Zhang, Hazel Doughty, Ling Shao, Cees G. M. Snoek

Rescaling Egocentric Vision: Collection, Pipeline and Challenges for EPIC-KITCHENS-100 — IJCV 2021
Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Antonino Furnari, Evangelos Kazakos, Jian Ma, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray.

Skeleton-Contrastive 3D Action Representation Learning — ACMMM 2021
Fida Mohammad Thoker, Hazel Doughty, Cees G. M. Snoek

On Semantic Similarity in Video Retrieval — CVPR 2021
Michael Wray, Hazel Doughty, Dima Damen

The EPIC-KITCHENS Dataset: Collection, Challenges and Baselines — TPAMI 2020
Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Sanja Fidler, Antonino Furnari, Evangelos Kazakos, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray

Action Modifiers: Learning from Adverbs in Instructional Videos — CVPR 2020
Hazel Doughty, Ivan Laptev, Walterio Mayol-Cuevas, Dima Damen

The Pros and Cons: Rank-aware Temporal Attention for Skill Determination in Long Videos — CVPR 2019
Hazel Doughty, Walterio Mayol-Cuevas, Dima Damen

StopWatch: The Preliminary Evaluation of a Smartwatch-based System for Passive Detection of Cigarette Smoking — Nicotine and Tobacco Research 2019
Andrew L Skinner, Christopher J Stone, Hazel Doughty and Marcus R Munfo

Scaling Egocentric Vision: The EPIC-KITCHENS Dataset — ECCV 2018 Oral
Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Sanja Fidler, Antonino Furnari, Evangelos Kazakos, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray

Who's Better? Who's Best? Pairwise Deep Ranking for Skill Determination — CVPR 2018 Spotlight
Hazel Doughty, Dima Damen, Walterio Mayol-Cuevas

Supervision

PhD (ongoing)
- Luc Sträter, Leiden University — 2025-present

- Kaiting Liu, Leiden University   2024-present
- Omar Emara (w/ Dima Damen), University of Bristol   2024-present
- Sarah Rastegar (w/ Cees Snoek), University of Amsterdam   2025-present

PhD (completed)
- Yunhua Zhang (w/ Cees Snoek), University of Amsterdam   2020-2024
- Fida Mohammad Thoker (w/ Cees Snoek), University of Amsterdam   2020-2023

Visting Researchers
- Aozhu Chen, PhD Student from Renmin University   2023-2024
- Piyush Bagad, Masters Student Research Intern   2021-2022

Masters
- Arsen Ignatosyan   2024-2025
- Rik van Schiack   2024-2025
- Rajiv Jethoe   2024-2025
- Yagmur Dogan   2024-2025
- Shiran Wu   2024-2025
- Bohan Wei   2023-2024
- Michael Kozak   2021
- Chang Liu   2020-2021
- Oguzhan Kizltepe   2020

Bachelors
- Maxsym Lytovka   2025
- Erki Elbrecht   2025
- Luis Kleinwort   2025
- Robin Kruijf   2024
- Giovanni Halevy   2024

Teaching

Seminar Advances in Deep Learning, Masters, Leiden University   2024 & 2025
- 20 students
- Overall Rating: 8.7

Computer Vision, 3rd Year BSc, Leiden University   2024
- 80 students
- Overall Rating: 8.3

Leren en Beslissen (Learning & Decision Making), 2nd Year BSc, University of Amsterdam   2022

Awards & Funding

NWO High-Tech Systems and Materials, Co-PI (€1,250,000)   2025
DUAL-mode IMaging for Production and Automated Control Technologies (DUAL-IMPACT)

Best 4-page Paper 11th Fine-Grained Categorization Workshop, CVPR 2024   2024
Low-Resource Vision Challenges for Foundation Models

NWO Talent Programme - Veni, PI (€280,000)   2023
From What to How: Perceiving Subtle Details in Video

ELLIS Member	2022
EPSRC Doctoral Training Program Funding (£53,000)	2016

Academic Service

PhD Jury Member

• Hui Lu, Utrecht University	2025
• Richard Schoonhoven, Leiden University	2024
• Chen Li, Leiden University	2024

Grant Reviewing

• Austrian Science Fund	2024
• National Science Center Poland	2024

Area Chair

• CVPR (Lead AC), ICCV, NeurIPS	2025
• ECCV (Lead AC), NeurIPS, ACCV, AAAI	2024
• ICCV, WACV	2023

Associate Editor

• CVIU	2023-present

Reviewing

• CVPR (Outstanding Reviewer)	2024
• NeurIPS (Outstanding Reviewer), CVPR (Outstanding Reviewer)	2023
• ECCV (Outstanding Reviewer), CVPR, NeurIPS	2022
• CVPR (Outstanding Reviewer), ICCV (Outstanding Reviewer), ICLR, WACV	2021
• ECCV (Outstanding Reviewer), ACCV (Outstanding Reviewer), CVPR, AAAI, WACV	2020

Organization

Conferences

• Netherlands Conference on Computer Vision	2024
• British Machine Vision Conference (BMVC) Workshop Chair	2023
• Netherlands Conference on Computer Vision	2022

Workshops

• What is Next in Video Understanding?	CVPR 2024
• Brain over Brawn (BoB): Label Efficient Learning Paradigms for Autonomy at Scale	IROS 2024
• Workshop on Pre-registration in ML	NeurIPS 2021
• Structured Representations for Video Understanding Workshop	ICCV 2021
• Women in Computer Vision Workshop	CVPR 2020
• Egocentric Perception, Interaction and Computing Workshop	CVPR and ECCV 2020

Invited Talks & Panels

Invited Talk, Video Understanding Symposium	2025
Invited Talk, African Computer Vision Summer School	2025
Invited Talk, iViSE Workshop at CVPR	2025
Invited Talk, CVPR Area Chair Workshop	2025
Invited Talk, HAVA Lab, University of Amsterdam	2025
Invited Talk, Computer Vision by Learning ASCI Course	2025
Invited Talk, ACCV Area Chair Workshop	2024

Invited Talk, University of Bath	2024
Invited Talk, Visipedia Workshop, University of Copenhagen	2024
Invited Talk, African Computer Vision Summer School	2024
Invited Talk, LEMP Symposium, University of Amsterdam	2023
Invited Talk, L3D-IVU Workshop at CVPR	2023
Invited Talk, Rising Stars in AI Symposium, KAUST	2023
Guest Lecture, University of Catania	2022
Invited Talk, Video Understanding Symposium	2022
Panelist, WiCV Workshop at CVPR	2022
Invited Talk, Computer Vision by Learning ASCI Course	2022
Guest Lecture, Computer Vision II, University of Amsterdam	2021
Invited Talk, University of Toronto	2021
Spotlight, Video Pentathlon Workshop at CVPR	2020
Invited Talk, Microsoft Research Cambridge	2019
Spotlight, CVPR Main Conference	2018
Spotlight, EPIC Workshop at ICCV	2017