

# Hazel Doughty

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## RESEARCH FOCUS

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My research focus is fine-grained video understanding with limited labeled data. Particularly, I have explored challenging problems including assessing skill in video, recognizing adverbs, weak-supervision from narrations domain adaptation, self-supervision and learning video-text embeddings.

## RESEARCH EXPERIENCE

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**Post-Doctoral Researcher**, Informatics Institute, University of Amsterdam Dec 2020-present  
Working with Prof. Cees Snoek and 4 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

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

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

## PUBLICATIONS

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*Day2Dark: Pseudo-Supervised Activity Recognition Beyond Silent Daylight*  
Yunhua Zhang, [Hazel Doughty](#), Cees G. M. Snoek.  
ArXiv Preprint, 2022

*How Severe is Benchmark-Sensitivity in Video Self-Supervised Learning?*  
Fida Mohammad Thoker, [Hazel Doughty](#), Piyush Bagad, Cees G. M. Snoek.  
European Conference on Computer Vision (ECCV), 2022

*How Do You Do It? Fine-Grained Action Understanding with Pseudo-Adverbs*  
[Hazel Doughty](#), Cees G. M. Snoek  
Conference on Computer Vision and Pattern Recognition (CVPR), 2022

*Audio-Adaptive Activity Recognition Across Video Domains*  
Yunhua Zhang, [Hazel Doughty](#), Ling Shao, Cees G. M. Snoek  
Conference on Computer Vision and Pattern Recognition (CVPR), 2022

*Rescaling Egocentric Vision: Collection, Pipeline and Challenges for EPIC-KITCHENS-100*  
Dima Damen, [Hazel Doughty](#), Giovanni Maria Farinella, Antonino Furnari, Evangelos Kazakos, Jian Ma, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray.  
International Journal of Computer Vision (IJCV), 2021

*Skeleton-Contrastive 3D Action Representation Learning*  
Fida Mohammad Thoker, [Hazel Doughty](#), Cees G. M. Snoek  
ACM International Conference on Multimedia (ACMMM), 2021

*On Semantic Similarity in Video Retrieval*  
Michael Wray, [Hazel Doughty](#), Dima Damen  
Conference on Computer Vision and Pattern Recognition (CVPR), 2021

### *The EPIC-KITCHENS Dataset: Collection, Challenges and Baselines*

Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Sanja Fidler, Antonino Furnari, Evangelos Kazakos, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray  
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2020

### *Action Modifiers: Learning from Adverbs in Instructional Videos*

Hazel Doughty, Ivan Laptev, Walterio Mayol-Cuevas, Dima Damen  
Conference on Computer Vision and Pattern Recognition (CVPR), 2020

### *The Pros and Cons: Rank-aware Temporal Attention for Skill Determination in Long Videos*

Hazel Doughty, Walterio Mayol-Cuevas, Dima Damen  
Conference on Computer Vision and Pattern Recognition (CVPR), 2019

### *StopWatch: The Preliminary Evaluation of a Smartwatch-based System for Passive Detection of Cigarette Smoking*

Andrew L Skinner, Christopher J Stone, Hazel Doughty and Marcus R Munfo  
Nicotine and Tobacco Research, 21(2), 2019

### *Scaling Egocentric Vision: The EPIC-KITCHENS Dataset*

Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Sanja Fidler, Antonino Furnari, Evangelos Kazakos, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray  
European Conference on Computer Vision (ECCV), 2018. (Oral)

### *Who's Better? Who's Best? Pairwise Deep Ranking for Skill Determination*

Hazel Doughty, Dima Damen, Walterio Mayol-Cuevas  
Conference on Computer Vision and Pattern Recognition (CVPR), 2018. (Spotlight)

## **SUPERVISION**

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Aozhu Chen, Visting PhD Student from Renmin University	from January 2023
Mohammad Mahdi Derakhshani, PhD Student (with Cees Snoek)	2022-present
Fida Mohammad Thoker, PhD Student (with Cees Snoek)	2021-present
Yunhua Zhang, PhD Student (with Cees Snoek)	2021-present
Sarah Rastegar, PhD Student (with Cees Snoek)	2020-present
Piyush Bagad, MS Intern (with Cees Snoek)	2021-2022
Michael Kozak, Master's Thesis	2021
Chang Liu, Master's Thesis	2020-2021
Oguzhan Kizltepe, Master's Thesis	2020

## **AWARDS, HONOURS & DISTINCTIONS**

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ELLIS Member	since 2022
Outstanding Reviewer for European Conference on Computer Vision (ECCV)	2022 and 2020
Outstanding Reviewer for Conference on Computer Vision and Pattern Recognition (CVPR)	2021
Outstanding Reviewer for International Conference on Computer Vision (ICCV)	2021
Outstanding Reviewer for Asian Conference on Computer Vision (ACCV)	2020
British Machine Vision Association Travel Bursary (£750)	2019
Women in Computer Vision Travel Grant (\$500)	2019
EPSRC Doctoral Training Program Funding	2016-2020
Top Graduating MEng Student, Department of Computer Science	2016
Best Research MEng Project, Department of Computer Science	2016

## **REVIEWING DUTIES**

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### **Area Chair**

International Conference on Computer Vision	2023
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### **Reviewer**

Conference on Computer Vision and Pattern Recognition	2020-2023
International Conference on Computer Vision	2019-2021
European Conference on Computer Vision	2020-2022

Transactions on Pattern Machine Intelligence	2020-2022
International Journal of Computer Vision	2020-2022
Winter Conference on Applications of Computer Vision	2020-2021
Conference on Neural Information Processing Systems	2022
International Conference on Learning Representations	2021
AAAI Conference on Artificial Intelligence	2020
Asian Conference on Computer Vision	2020

## ORGANIZATION

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### Conferences

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

### Workshops

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

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Understanding Actions in Video, <i>Guest Lecture</i> , University of Catania	2022
Finer-Grained Video Understanding, <i>Invited Talk</i> , Video Understanding Symposium	2022
Women in Computer Vision Panel, <i>Panelist</i> , WiCV Workshop at CVPR	2022
Understanding Actions in Video, <i>Invited Talk</i> , Computer Vision by Learning ASCI Course	2022
Introduction to Video Understanding, <i>Guest Lecture</i> , Computer Vision II, University of Amsterdam	2021
What Are You Doing and How Are You Doing It?, <i>Invited Talk</i> , University of Toronto	2021
Action Modifiers, <i>Spotlight</i> , Video Pentathlon Workshop at CVPR	2020
Skill Determination in Video, <i>Invited Talk</i> , Microsoft Research Cambridge	2019
Who's Better? Who's Best?, <i>Spotlight</i> , CVPR	2018
Skill Determination from Egocentric Video, <i>Spotlight</i> , EPIC Workshop at ICCV	2017

## TEACHING

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<i>Unit Director</i> , Informatics Institute, University of Amsterdam	2022
Leren & Beslissen (English: Learning and Decision Making), Y2 Bachelor's in AI	

<i>Teaching Assistant</i> , Department of Computer Science, University of Bristol	2016-2020
Multiple undergraduate and master's computer science courses including: Data Structures and Algorithms (Y2), Symbols, Patterns and Signals (Y2), Advanced Algorithms (Y3), Applied Deep Learning (Master's)	

## REFERENCES

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Cees Snoek, Professor, University of Amsterdam	<i>C.G.M.Snoek@uva.nl</i>
Dima Damen, Professor, University of Bristol	<i>Dima.Damen@bristol.ac.uk</i>
Josef Sivic, Distinguished Researcher, Czech Technical University	<i>josef.sivic@cvut.cz</i>