# Hazel Doughty

hazeldoughty.github.io
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**RESEARCH FOCUS**

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.

**EMPLOYMENT**

**Post-Doctoral Researcher in Computer Vision** (Dec 2020-Present)
Informatics Institute, University of Amsterdam
Working with Prof. Cees Snoek and 3 PhD students on topics in video understanding, including action recognition, self-supervised learning, multi-modal learning, open-set recognition and domain adaptation.

**EDUCATION**

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

**MEng in Computer Science** (2012-2016)
Department of Computer Science, University of Bristol
First Class - Top Ranked Graduate

**PUBLICATIONS**

*How Severe is Benchmark-Sensitivity in Video Self-Supervised Learning?*
Fida Mohammad Thoker, Hazel Doughty, Piyush Bagad and 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 and 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 and 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.
Interational Journal of Computer Vision (IJCV), 2021

*Skeleton-Contrastive 3D Action Representation Learning*
Fida Mohammad Thoker, Hazel Doughty, Cees Snoek
ACM International Conference on Multimedia, 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 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

*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

*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

**PUBLIC DATASETS**
EPIC-Kitchens   `http://epic-kitchens.github.io/`
Bristol Everyday Skill Tasks (BEST)
`https://github.com/hazeld/rank-aware-attention-network`
EPIC-Skills   `https://dimadamen.github.io/Skill/`

**INTERNSHIPS**
2019 Research visit to INRIA Willow (Paris), working with Prof. Ivan Laptev
2015 Interdisciplinary Research Internship, University of Bristol,
working with Prof. Ute Leonards
2014 Research Internship, Interaction and Graphics Group, University of Bristol

**AWARDS, HONOURS, DISTINCTIONS**
Outstanding Reviewer: ECCV 2022, CVPR 2021, ICCV 2021,
ECCV 2020, ACCV 2020
Doctoral Training Programme Funding (2016-2020)
Top Graduating MEng Student, Department of Computer Science (2016)
Best Research MEng Project, Department of Computer Science (2016)

**REVIEWING DUTIES**
CVPR 2020-2023, ICCV 2019-2021, ECCV 2020-2022, TPAMI 2020-2022,
IJCV 2020-2022, NeurIPS 2022, ICLR 2021, AAAI 2020,
WACV 2021-2022, ACCV 2020

**ORGANIZATION**
Netherlands Conference on Computer Vision, 2022
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 2020 and ECCV 2020

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| **INVITED TALKS**<br>**& PANELS** | *Guest Lecture*, University of Catania, 2022<br>*Video Understanding Symposium*, Amsterdam, 2022<br>*Women in Computer Vision Panel*, CVPR, 2022<br>*Computer Vision by Learning*, ASCI Course, 2022<br>*Guest Lecture in Computer Vision II*, University of Amsterdam, 2021<br>*AI in Robotics Seminar*, University of Toronto, 2021<br>*Video Pentathlon Workshop*, CVPR, 2020<br>*Microsoft Research*, Cambridge, 2019<br>*EPIC Workshop*, ICCV, 2017 |
| **TEACHING** | *Unit Director*, 2022<br>Informatics Institute, University of Amsterdam<br>Leren & Beslissen (English: Learning and Decision Making)<br><br>*Teaching Assistant*, 2016-2020<br>Department of Computer Science University of Bristol<br>Multiple undergraduate Computer Science courses including: Data Structures and Algorithms (Y2), Symbols, Patterns and Signals (Y2), Advanced Algorithms (Y3), Applied Deep Learning (Y4) |