

## Anna Kukleva

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## EDUCATION

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| <b>Max-Planck-Institute for Informatics, Universität des Saarlandes, Germany</b>                    | January 2020 — August 2024  |
| Doctor of Engineering   | Summa Cum Laude             |
| Receiver of The Otto Hahn Medal (PhD Thesis Award of the Max Planck Society across all disciplines) |                             |
| <b>Bonn University, Germany</b>   | October 2017 — January 2020 |
| M.Sc. in Computer Science   | GPA: 1.1/1.0 (Distinction)  |
| Thesis: Learning Interactions and Relationships between Movie Characters [18]                       |                             |
| Receiver of Grace-Hopper-Award (Master Thesis Award)  |                             |
| <b>Lomonosov Moscow State University, Russia</b>  | September 2013 — June 2017  |
| B.Sc. in Computer Science   |                             |
| Thesis: Abandoned Objects Detection in Video Sequences[21]  |                             |

## EXPERIENCE

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| <b>Max-Planck-Institute for Informatics</b>   | Saarbrücken, Germany           |
| <i>Postdoctoral researcher</i>  | September 2024 — Present       |
| Supervisor: Bernt Schiele   |                                |
| <b>Max-Planck-Institute for Informatics</b>   | Saarbrücken, Germany           |
| <i>PhD Student</i>  | February 2020 — August 2024    |
| Topic: Advancing Image and Video Recognition with Less Supervision  |                                |
| Supervisor: Bernt Schiele   |                                |
| <b>Allegis Group GmbH (Client is Meta)</b>  | Remote, Germany                |
| <i>External Research Collaborator</i>   | March 2024 — July 2024         |
| - Monitor and track project progress and identify issues as they arise                                    |                                |
| - Assist researchers through the life of the project while being responsible for a portion of the project |                                |
| - Share work and give feedback to teammates   |                                |
| Manager: Fadime Sener   |                                |
| <b>Meta</b>   | Zürich, Switzerland            |
| <i>Research Intern</i>  | May 2023 — October 2023        |
| Project: Cross-Modal Instance Conditioning for Egocentric Action Generalization [5]                       |                                |
| Manager: Fadime Sener   |                                |
| <b>Meta</b>   | Virtual, Germany               |
| <i>Research Intern</i>  | September 2021 — December 2021 |
| Topic: Project to improve Single Object Tracking  |                                |
| Manager: Heng Wang, Du Tran   |                                |
| <b>Inria , Willow team</b>  | Paris, France                  |
| <i>Research Intern with Stipend</i>   | May 2019 — November 2019       |
| Project: Learning Interactions and Relationships between Movie Characters [18]                            |                                |
| Supervisor: Makarand Tapaswi, Ivan Laptev   |                                |
| <b>Uni Bonn</b>   | Bonn, Germany                  |
| <i>Research Assistant</i>   | April 2018 — April 2019        |
| Project: Unsupervised learning of action classes with continuous temporal embedding [20]                  |                                |
| Supervisor: Hilde Kuehne, Jürgen Gall   |                                |

## PUBLICATIONS

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- [1] Selim Kuzucu, Muhammad Ferjad Naeem, **Anna Kukleva**, Federico Tombari, and Bernt Schiele. “Language-Unlocked ViT (LUViT): Empowering Self-Supervised Vision Transformers with LLMs”. In: *arXiv:2507.00754* (2025).
- [2] Philipp Flotho\*, Moritz Piening\*, **Anna Kukleva**, and Gabriele Steidl. “T-FAKE: Synthesizing Thermal Images for Facial Landmarking”. In: *CVPR 2025*.
- [3] Felix Vogel, Walid Bousselham, **Anna Kukleva**, Nina Shvetsova, and Hilde Kuehne. “VideoGEM: Training-free Action Grounding in Videos”. In: *CVPR 2025*.

- [4] Nina Shvetsova\*, **Anna Kukleva\***, Xudong Hong, Christian Rupprecht, Bernt Schiele, and Hilde Kuehne. “HowTo-Caption: Prompting LLMs to Transform Video Annotations at Scale”. In: *ECCV 2024*.
- [5] **Anna Kukleva**, Fadime Sener, Edoardo Remelli, Bugra Tekin, Eric Sauser, Bernt Schiele, and Shugao Ma. “X-MIC: Cross-Modal Instance Conditioning for Egocentric Action Generalization”. In: *CVPR 2024*.
- [6] Noor Ahmed\*, **Anna Kukleva\***, and Bernt Schiele. “OrCo: Towards Better Generalization via Orthogonality and Contrast for Few-Shot Class-Incremental Learning”. In: *CVPR 2024*.
- [7] Nina Shvetsova\*, **Anna Kukleva\***, Bernt Schiele, and Hilde Kuehne. “In-Style: Bridging Text and Uncurated Videos with Style Transfer for Text-Video Retrieval”. In: *ICCV 2023*.
- [8] Yue Fan, **Anna Kukleva**, Dengxin Dai, and Bernt Schiele. “SSB: Simple but Strong Baseline for Boosting Performance of Open-Set Semi-Supervised Learning”. In: *ICCV 2023*.
- [9] Nina Shvetsova, Felix Petersen, **Anna Kukleva**, Bernt Schiele, and Hilde Kuehne. “Learning by Sorting: Self-supervised Learning with Group Ordering Constraints”. In: *ICCV 2023*.
- [10] **Anna Kukleva\***, Moritz Böhle\*, Bernt Schiele, Hilde Kuehne, and Christian Rupprecht. “Temperature Schedules for self-supervised contrastive methods on long-tail data”. In: *ICLR 2023*.
- [11] Wei Lin, **Anna Kukleva**, Horst Possegger, Hilde Kuehne, and Horst Bischof. “TAEC: Unsupervised Action Segmentation with Temporal-Aware Embedding and Clustering”. In: *CEUR Workshop 2023*.
- [12] Yue Fan, **Anna Kukleva**, Dengxin Dai, and Bernt Schiele. “Revisiting consistency regularization for semi-supervised learning”. In: *IJCV* (2023).
- [13] Wei Lin, **Anna Kukleva**, Kunyang Sun, Horst Possegger, Hilde Kuehne, and Horst Bischof. “CycDA: Unsupervised Cycle Domain Adaptation from Image to Video”. In: *ECCV 2022*.
- [14] Enea Duka\*, **Anna Kukleva\***, and Bernt Schiele. “Leveraging Self-Supervised Training for Unintentional Action Recognition”. In: *ECCVW 2022*.
- [15] Yue Fan, Dengxin Dai, **Anna Kukleva**, and Bernt Schiele. “Cossal: Co-learning of representation and classifier for imbalanced semi-supervised learning”. In: *CVPR 2022*.
- [16] **Anna Kukleva**, Hilde Kuehne, and Bernt Schiele. “Generalized and incremental few-shot learning by explicit learning and calibration without forgetting”. In: *ICCV 2021*.
- [17] Rosaura G VidalMata, Walter J Scheirer, **Anna Kukleva**, David Cox, and Hilde Kuehne. “Joint visual-temporal embedding for unsupervised learning of actions in untrimmed sequences”. In: *WACV 2021*.
- [18] **Anna Kukleva**, Makarand Tapaswi, and Ivan Laptev. “Learning interactions and relationships between movie characters”. In: *CVPR 2020 (Oral)*.
- [19] **Anna Kukleva\***, Mohammad Asif Khan\*, Hafez Farazi, and Sven Behnke. “Utilizing temporal information in deep convolutional network for efficient soccer ball detection and tracking”. In: *RoboCup 2019: Robot World Cup XXIII 23 (Oral)*.
- [20] **Anna Kukleva**, Hilde Kuehne, Fadime Sener, and Jurgen Gall. “Unsupervised learning of action classes with continuous temporal embedding”. In: *CVPR 2019*.
- [21] **Anna Kukleva**, Vlad Konushin, and Anton Konushin. “Abandoned Objects Detection in Video Sequences”. In: *Graph-iCon 2017*.

## TALKS

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### Angela Yao's group

*Advancing Video Recognition with Less Supervision*

National University of Singapore

Aprils 2025

### FunAI group

*Advancing Video Recognition with Less Supervision*

University of Technology Nuremberg

February 2025

### Spotlight Talk

*Advancing Video Recognition with Less Supervision*

GCPR 2024

September 2024

### The 57th session of MultimodalWeekly

*HowToCaption: Prompting LLMs to Transform Video Annotations at Scale*

Twelve Labs

August 2024

### SprintML group

*Advancing Image and Video Recognition with Less Supervision*

CISPA

July 2024

### VGG Seminar

*Advancing Image and Video Recognition with Less Supervision*

University of Oxford

March 2024

### ZESS Lecture Series: Talks in Visual Computing

*Advancing Image and Video Recognition with Less Supervision*

University of Siegen

March 2024

|  |                                     |
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| <b>Computer Vision Talks</b>   | YouTube                             |
| <i>Generalized and Incremental Few-Shot Learning by Explicit Learning and Calibration without Forgetting</i> | January 2022                        |
| <b>6th Christmas Colloquium on Computer Vision 2020</b>  | Virtual by Samsung AI Center Moscow |
| <i>Learning Interactions and Relationships Between Movie Characters</i>                                      | December 2020                       |
| <b>DLCV Practitioner's Evening</b>   | Virtual                             |
| <i>Learning Interactions and Relationships Between Movie Characters</i>                                      | August 2020                         |
| <b>CMU Visit (Abhinav Gupta's group)</b>   | Pittsburgh, USA                     |
| <i>Video Understanding</i>   | January 2020                        |
| <b>WILLOW-ENPC-Berkeley Workshop on Vision and Robotics</b>  | Paris, France                       |
| <i>Learning Interactions and Relationships Between Movie Characters</i>                                      | September 2019                      |

## TEACHING

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### Master Students:

Noor Ahmed: *Towards Better Generalization via Orthogonality and Contrast for Few-Shot Class-Incremental Learning* [6]

Luisa Danalachi: *Incremental Domain Adaptation for Semantic Segmentation*

Enea Duka: *Learn and Transfer from Unintentional Actions to Anomalous Videos* [14]

Skender Paturri: *Spatio-Temporal Action Detection*

### Bachelor Students:

Julius Gabelmann: *Few-Shot Learning with the Help of Self-Supervision*

### Courses:

Probabilistic Graphical Models, WS2020

## ACADEMIC ACTIVITIES

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**Area Chair:** WACV 2024, WACV 2025, NeurIPS 2025, WACV 2026

**Doctoral Consortium Chair:** ICCV 2025

Coorganizing the NextVid workshop in conjunction with NeurIPS 2025 San Diego, USA

Coorganizing the MMFM workshop in conjunction with CVPR 2025 Nashville, USA

Coorganizing the LPVL workshop in conjunction with CVPR 2024 Seattle, USA

Coorganizing the WiCV workshop in conjunction with ECCV 2020 Glasgow, UK

**Reviewer:** CVPR21-24, ICCV21-25, ECCV22-24, PAMI, IJCV, WACV21-22, TMM, ACMMM21, AISTAT23, NeurIPS23-24

## HONORS & AWARDS

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| <b>The Otto Hahn Medal</b>   | 2025 |
| PhD Thesis Award of the Max Planck Society across all disciplines          |      |
| <b>Top Reviewer CVPR 2024</b>  | 2024 |
| Top 2% acceptance rate   |      |
| <b>Selected by Doctoral Consortium at CVPR 2024</b>                        | 2024 |
| Top 13% acceptance rate  |      |
| <b>Top Reviewer NeurIPS 2023</b>   | 2023 |
| Top 9% acceptance rate   |      |
| <b>Top Reviewer AISTAT 2023</b>  | 2023 |
| Top 10% acceptance rate  |      |
| <b>Reading Group Prise at ICVSS</b>  | 2022 |
| Top 25% acceptance rate  |      |
| <b>Selected by the International Computer Vision Summer School (ICVSS)</b> | 2022 |
| Top 23.8% acceptance rate  |      |
| <b>Grace-Hopper-Award</b>  | 2021 |
| Master thesis award  |      |
| <b>Master Degree with Distinction</b>                                      | 2020 |
| Bonn University  |      |
| <b>Oral Presentation at CVPR 2020</b>                                      | 2020 |
| Top 4% acceptance rate   |      |