

Anna Kukleva

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EDUCATION

Max-Planck-Institute for Informatics, Universität des Saarlandes, Germany January 2020 — August 2024
Doctor of Engineering Summa Cum Laude

Thesis: Advancing Image and Video Recognition With Less Supervision

Receiver of The Otto Hahn Medal (PhD Thesis Award of the Max Planck Society across all disciplines)

Bonn University, Germany

October 2017 — January 2020

M.Sc. in Computer Science

GPA: 1.1/1.0 (Distinction)

Thesis: Learning Interactions and Relationships between Movie Characters [19]

Receiver of Grace-Hopper-Award (Master Thesis Award)

Lomonosov Moscow State University, Russia

September 2013 — June 2017

B.Sc. in Computer Science

Thesis: Abandoned Objects Detection in Video Sequences[22]

EXPERIENCE

Max-Planck-Institute for Informatics

Saarbrücken, Germany

Postdoctoral researcher

September 2024 — Present

Supervisor: Bernt Schiele

Max-Planck-Institute for Informatics

Saarbrücken, Germany

PhD Student

February 2020 — August 2024

Topic: Advancing Image and Video Recognition with Less Supervision

Supervisor: Bernt Schiele

Allegis Group GmbH (Client is Meta)

Remote, Germany

External Research Collaborator

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

Meta

Zürich, Switzerland

Research Intern

May 2023 — October 2023

Project: Cross-Modal Instance Conditioning for Egocentric Action Generalization [6]

Manager: Fadime Sener

Meta

Virtual, Germany

Research Intern

September 2021 — December 2021

Topic: Project to improve Single Object Tracking

Manager: Heng Wang, Du Tran

Inria , Willow team

Paris, France

Research Intern with Stipend

May 2019 — November 2019

Project: Learning Interactions and Relationships between Movie Characters [19]

Supervisor: Makarand Tapaswi, Ivan Laptev

Uni Bonn

Bonn, Germany

Research Assistant

April 2018 — April 2019

Project: Unsupervised learning of action classes with continuous temporal embedding [21]

Supervisor: Hilde Kuehne, Jürgen Gall

PUBLICATIONS

- [1] **Anna Kukleva***, Enis Simsar*, Alessio Tonioni, Muhammad Ferjad Naeem, Federico Tombari, Jan Eric Lenssen, and Bernt Schiele. “RefAM: Attention Magnets for Zero-Shot Referral Segmentation”. In: *arXiv:2509.22650* (2025).
- [2] 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).
- [3] Philipp Flotho*, Moritz Piening*, **Anna Kukleva**, and Gabriele Steidl. “T-FAKE: Synthesizing Thermal Images for Facial Landmarking”. In: *CVPR 2025*.

- [4] Felix Vogel, Walid Bousselham, **Anna Kukleva**, Nina Shvetsova, and Hilde Kuehne. “VideoGEM: Training-free Action Grounding in Videos”. In: *CVPR 2025*.
- [5] Nina Shvetsova*, **Anna Kukleva***, Xudong Hong, Christian Rupprecht, Bernt Schiele, and Hilde Kuehne. “HowToCaption: Prompting LLMs to Transform Video Annotations at Scale”. In: *ECCV 2024*.
- [6] **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*.
- [7] Noor Ahmed*, **Anna Kukleva***, and Bernt Schiele. “OrCo: Towards Better Generalization via Orthogonality and Contrast for Few-Shot Class-Incremental Learning”. In: *CVPR 2024*.
- [8] 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*.
- [9] 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*.
- [10] Nina Shvetsova, Felix Petersen, **Anna Kukleva**, Bernt Schiele, and Hilde Kuehne. “Learning by Sorting: Self-supervised Learning with Group Ordering Constraints”. In: *ICCV 2023*.
- [11] **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*.
- [12] 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*.
- [13] Yue Fan, **Anna Kukleva**, Dengxin Dai, and Bernt Schiele. “Revisiting consistency regularization for semi-supervised learning”. In: *IJCV (2023)*.
- [14] 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*.
- [15] Enea Duka*, **Anna Kukleva***, and Bernt Schiele. “Leveraging Self-Supervised Training for Unintentional Action Recognition”. In: *ECCVW 2022*.
- [16] Yue Fan, Dengxin Dai, **Anna Kukleva**, and Bernt Schiele. “CossL: Co-learning of representation and classifier for imbalanced semi-supervised learning”. In: *CVPR 2022*.
- [17] **Anna Kukleva**, Hilde Kuehne, and Bernt Schiele. “Generalized and incremental few-shot learning by explicit learning and calibration without forgetting”. In: *ICCV 2021*.
- [18] 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*.
- [19] **Anna Kukleva**, Makarand Tapaswi, and Ivan Laptev. “Learning interactions and relationships between movie characters”. In: *CVPR 2020 (Oral)*.
- [20] **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)*.
- [21] **Anna Kukleva**, Hilde Kuehne, Fadime Sener, and Jurgen Gall. “Unsupervised learning of action classes with continuous temporal embedding”. In: *CVPR 2019*.
- [22] **Anna Kukleva**, Vlad Konushin, and Anton Konushin. “Abandoned Objects Detection in Video Sequences”. In: *Graph-iCon 2017*.

TALKS

50th Pattern Recognition and Computer Vision Colloquium

From Words to Pixels: Leveraging LLMs for Vision Tasks

Czech Technical University

October 2025

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 <i>Advancing Image and Video Recognition with Less Supervision</i>	University of Oxford March 2024
ZESS Lecture Series: Talks in Visual Computing <i>Advancing Image and Video Recognition with Less Supervision</i>	University of Siegen March 2024
Computer Vision Talks <i>Generalized and Incremental Few-Shot Learning by Explicit Learning and Calibration without Forgetting</i>	YouTube January 2022
6th Christmas Colloquium on Computer Vision 2020 <i>Learning Interactions and Relationships Between Movie Characters</i>	Virtual by Samsung AI Center Moscow December 2020
DLCV Practioner's Evening <i>Learning Interactions and Relationships Between Movie Characters</i>	Virtual August 2020
CMU Visit (Abhinav Gupta's group) <i>Video Understanding</i>	Pittsburgh, USA January 2020
WILLOW-ENPC-Berkeley Workshop on Vision and Robotics <i>Learning Interactions and Relationships Between Movie Characters</i>	Paris, France September 2019

TEACHING

Master Students:

Maheen Saleh: *Multiscale Video Captioning with LLMs and Video Annotations*
Noor Ahmed: *Towards Better Generalization via Orthogonality and Contrast for Few-Shot Class-Incremental Learning* [7]
Luisa Danalachi: *Incremental Domain Adaptation for Semantic Segmentation*
Enea Duka: *Learn and Transfer from Unintentional Actions to Anomalous Videos* [15]
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

Area Chair: WACV 2024-2026, NeurIPS 2025

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

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