Anna Kukleva

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EDUCATION

Universität des Saarlandes, Germany — Present
Doctor of Philosophy

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 [16]
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 [19]

EXPERIENCE

Max-Planck-Institute for Informatics — Saarbrücken, Germany
PhD Student — February 2020 — Present
Topic: Image and Video Recognition with Limited Data
Supervisor: Bernt Schiele

Meta — Zürich, Switzerland
Research Intern — May 2023 — October 2023
Project: Cross-Modal Instance Conditioning for Egocentric Action Generalization [1]
Manager: Fadime Sener

Meta (Facebook) — Virtual
Research Intern — September 2021 — December 2021
Topic: Single Object Tracking
Manager: Heng Wang, Du Tran

Inria (Willow team) — Paris, France
Research Intern — May 2019 — November 2019
Project: Learning Interactions and Relationships between Movie Characters [16]
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 [18]
Supervisor: Hilde Kuehne, Jürgen Gall

PUBLICATIONS

[1] **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*.

[2] Noor Ahmed*, **Anna Kukleva***, and Bernt Schiele. "OrCo: Towards Better Generalization via Orthogonality and Contrast for Few-Shot Class-Incremental Learning". In: *CVPR 2024*.

[3] Yonghui Fan, **Anna Kukleva**, Dawei Zhou, Jundong Li, and Jiaying Shen. *CharmT: A Character-centric Multimodal Transformer for Modeling Interpersonal Interactions and Relationships in Movies*. (under submission).

[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: *arXiv preprint arXiv:2310.04900* (2023).

[5] 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*.

[6] 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*.

[7] Nina Shvetsova, Felix Petersen, **Anna Kukleva**, Bernt Schiele, and Hilde Kuehne. "Learning by Sorting: Self-supervised Learning with Group Ordering Constraints". In: *ICCV 2023*.

[8] **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*.

[9] Wei Lin, **Anna Kukleva**, Horst Possegger, Hilde Kuehne, and Horst Bischof. "TAEC: Unsupervised Action Segmentation with Temporal-Aware Embedding and Clustering". In: *CEUR Workship 2023*.

[10] Yue Fan, **Anna Kukleva**, Dengxin Dai, and Bernt Schiele. "Revisiting consistency regularization for semi-supervised learning". In: *IJCV* (2023).

[11] 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*.

[12] Enea Duka*, **Anna Kukleva***, and Bernt Schiele. "Leveraging Self-Supervised Training for Unintentional Action Recognition". In: *ECCVW 2022*.

[13] Yue Fan, Dengxin Dai, **Anna Kukleva**, and Bernt Schiele. "Cossl: Co-learning of representation and classifier for imbalanced semi-supervised learning". In: *CVPR 2022*.

[14] **Anna Kukleva**, Hilde Kuehne, and Bernt Schiele. "Generalized and incremental few-shot learning by explicit learning and calibration without forgetting". In: *ICCV 2021*.

[15] 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*.

[16] **Anna Kukleva**, Makarand Tapaswi, and Ivan Laptev. "Learning interactions and relationships between movie characters". In: *CVPR 2020 (Oral)*.

[17] **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)*.

[18] **Anna Kukleva**, Hilde Kuehne, Fadime Sener, and Jurgen Gall. "Unsupervised learning of action classes with continuous temporal embedding". In: *CVPR 2019*.

[19] **Anna Kukleva**, Vlad Konushin, and Anton Konushin. "Abandoned Objects Detection in Video Sequences". In: *GraphiCon 2017*.

TALKS

VGG Seminar — University of Oxford
Advancing Image and Video Recognition with Less Supervision — March 2024

ZESS Lecture Series: Talks in Visual Computing — University of Siegen
Advancing Image and Video Recognition with Less Supervision — March 2024

Computer Vision Talks — YouTube
Generalized and Incremental Few-Shot Learning by Explicit Learning and Calibration without Forgetting — January 2022

6th Christmas Colloquium on Computer Vision 2020 — Virtual by Samsung AI Center Moscow
Learning Interactions and Relationships Between Movie Characters — December 2020

DLCV Practioner's Evening — Virtual
Learning Interactions and Relationships Between Movie Characters — August 2020

CMU Visit (Abhinav Gupta's group) — Pittsburgh, USA
Video Understanding — January 2020

WILLOW-ENPC-Berkeley Workshop on Vision and Robotics — Paris, France
Learning Interactions and Relationships Between Movie Characters — September 2019

TEACHING

Master Students:
Noor Ahmed: *Towards Better Generalization via Orthogonality and Contrast for Few-Shot Class-Incremental Learning* [2]
Luisa Danalachi: *Incremental Domain Adaptation for Semantic Segmentation*
Enea Duka: *Learn and Transfer from Unintentional Actions to Anomalous Videos* [12]
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

Coorganizing the LPVL workshop in conjunction with CVPR 2024 — Seattle, USA
Coorganizing the WiCV workshop in conjunction with ECCV 2020 — Glasgow, UK

Area Chair: WACV 2024
Reviewer: CVPR21-24, ICCV21-23, ECCV22, PAMI, IJCV, WACV21-22, TMM, ACMMM21, AISTAT23, NeurIPS23

HONORS & AWARDS

Top Reviewer NeurIPS 2023 2023
Top 9% acceptance rate
Top Reviewer AISTAT 2023 2023
Top 10% 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