

EDUCATION

Ph.D. in Computer Science , King Abdullah University of Science & Technology Image and Video Understanding Lab Research Advisor: Prof Bernard Ghanem	2020 - Now
Master of Science in Computer Science , King Abdullah University of Science & Technology Thesis: "SeedQuant: A Deep Learning-based Census Tool for Seed Germination of Root Parasitic Plants" Image and Video Understanding Lab Research Advisor: Prof Bernard Ghanem GPA: 3.62/4.00	2018 -2020
Bachelor of Science in Computer Science , Nazarbayev University GPA: 3.76/4.00 (Cum Laude), Major GPA: 3.88/4.00 (#1) Dean's List Award – 4 semesters	2014 - 2018
Visiting International Student , The University of Wisconsin-Madison GPA: 4.0/4.0	2017

PUBLICATIONS

Ego4D: Around the World in 3,000 Hours of Egocentric Video [\[link\]](#)

Conference on Computer Vision and Pattern Recognition (CVPR) - 2022, *1/33 Best Paper Finalist*

- **Publication:** Kristen Grauman et al. "Ego4d: Around the world in 3,000 hours of egocentric video." In the Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, 2022).
- **Description:** We introduce Ego4D, a massive-scale egocentric video dataset and benchmark suite. It offers 3,670 hours of daily-life activity video spanning hundreds of scenarios (household, outdoor, workplace, leisure, etc.) captured by 931 unique camera wearers from 74 worldwide locations and 9 different countries.

OWL (Observe, Watch, Listen): Localizing Actions in Egocentric Video via Audiovisual Temporal Context [\[link\]](#)

ArXiv preprint

- **Publication:** Merrey Ramazanova, Victor Escorcia, Fabian Caba Heilbron, Chen Zhao & Bernard Ghanem. "OWL (Observe, Watch, Listen): Localizing Actions in Egocentric Video via Audiovisual Temporal Context." ArXiv abs/2202.04947 (2022).
- **Description:** In this work, we take a deep look into the effectiveness of audio in detecting actions in egocentric videos and introduce a simple-yet-effective approach via Observing, Watching, and Listening (OWL) to leverage audio-visual information and context for egocentric TAL.

SeedQuant: a deep learning-based tool for assessing stimulant and inhibitor activity on root parasitic seeds [\[link\]](#)

Plant physiology - 2021

- **Publication:** Justine Braguy*, Merrey Ramazanova*, Silvio Giancola*, Muhammad Jamil, Boubacar A Kountche, Randa Zarban, Abrar Felemban, Jian You Wang, Pei-Yu Lin, Imran Haider, Matias Zurbruggen, Bernard Ghanem & Salim Al-Babili. "SeedQuant: a deep learning-based tool for assessing stimulant and inhibitor activity on root parasitic seeds." Plant Physiology 186 (2021): 1632 - 1644. (* := equal contribution)
- **Description:** We combined deep learning, a powerful data-driven framework that can accelerate the procedure and increase its accuracy, for object detection with computer vision latest development based on the Faster Region-based CNN algorithm. Our method showed an accuracy of 94% in counting seeds of Striga hermonthica and reduced the required time from approximately 5 min to 5 s per image.

SegTAD: Precise Temporal Action Detection via Semantic Segmentation [\[link\]](#)

ArXiv preprint

- **Publication:** Chen Zhao, Merrey Ramazanova, Mengmeng Xu & Bernard Ghanem. "SegTAD: Precise Temporal Action Detection via Semantic Segmentation." ArXiv abs/2203.01542 (2022).
- **Description:** We propose an end-to-end framework SegTAD composed of a 1D semantic segmentation network (1D-SSN) and a proposal detection network (PDN).

Logistic Regression is Still Alive and Effective: The 3rd YouTube 8M Challenge Solution of the IVUL-KAUST team [\[link\]](#)

International Conference on Computer Vision (ICCV) Workshops -2019

- **Publication:** Merrey Ramazanova, Chen Zhao, Mengmeng Xu, Humam Alwassel, Sara Rojas Martinez, Fabian Caba & Bernard Ghanem. "Logistic Regression is Still Alive and Effective: The 3rd YouTube 8M Challenge Solution of the IVUL-KAUST team." The IEEE International Conference on Computer Vision (ICCV, 2019) Workshops.
- **Description:** In this report, we present our solution for the 3rd YouTube-8M Video Understanding Challenge for a task of temporal localization of topics within a video.

RELEVANT EXPERIENCE & AWARDS

Teaching Assistant: Deep Learning for Visual Computing	2021
Teaching Assistant: Deep Learning for Visual Computing	2020
Coursera Deep Learning Specialization [link]	2019
The 3rd YouTube-8M Video Understanding Challenge	2019
Temporal localization of topics within video [link] Team Leader 9/284 on Public Leaderboard, 11/284 on Private Leaderboard	
Google Get Ahead Program	
8-week virtual program for selected CS students from all over EMEA The program involves technical challenges, YouTube live trainings and interview workshops	2019
JUNCTIONxKAUST 2018 (Hackathon) , <i>King Abdullah University of Science & Technology, Saudi Arabia</i>	
Product: "Used face recognition libraries to develop AITagger - a Telegram chatbot for sharing photos with friends"	2018
KAUST Fellowship	
A generous fellowship provided for MS/PhD students at KAUST	2018
Yessenov Foundation Data Science Lab [link] , <i>Almaty, Kazakhstan</i>	
10-week intensive program for selected participants (20% acceptance rate): Python, Numpy, Pandas, regression and classification models, neural networks (basics), computer vision (basics), TensorFlow, data visualization, solving real cases of Kazakhstani banks and companies (Kaspi Lab)	2018
Yessenov Foundation Grant , <i>Almaty, Kazakhstan</i>	
Awarded with 1/20 generous grants for Data Science Lab (acceptance rate ~20%)	2018
Research Internship , <i>Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan</i>	
Computational Neuroscience unit Supervisor: Prof Eric De Shutter	
Topic: "Sensitivity analysis for exact stochastic simulation of reaction-diffusion systems"	2018
ABC Hack (Hackathon) , <i>Astana, Kazakhstan</i>	
Developed Android Mobile Application: enhancing functionality for a video job interview (winner)	2017
NFactorial Summer Startup Incubator , <i>Almaty, Kazakhstan</i>	
12-week intensive program for selected participants: Android development workshops, lectures on marketing and design	
Developed mobile application "Craft", a marketplace for handmade items in Kazakhstan	2016
Research Internship , <i>Tokai University (Sakura Exchange Program in Science), Tokyo, Japan</i>	
Topic: "Programming active bone-conducted sound sensing for wearable interfaces" Supervisor: Prof Kentaro Takemura	2016