Merey Ramazanova

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Ph.D. candidate

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EDUCATION

2500/110/1	
Ph.D. in Computer Science, King Abdullah University of Science & Technology	2020 - Now
Image and Video Understanding Lab Research Advisor: Prof Bernard Ghanem	
Master of Science in Computer Science, King Abdullah University of Science & Technology	2018 -2020
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	
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:** *Merey 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*, Merey Ramazanova*, Silvio Giancola*, Muhammad Jamil, Boubacar A Kountche, Randa Zarban, Abrar Felemban, Jian You Wang, Pei-Yu Lin, Imran Haider, Matias Zurbriggen, 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, *Merey 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: Merey 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

Rising Stars in AI Symposium 2022 [link]	
Invited to give a talk about Ego4D dataset	2022
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 Leaderbo	ard
Google Get Ahead Program	
8-week virtual program for selected CS students from all over EMEA The program involves technical challenges, YouTube li	ive
trainings and interview workshops	2019
JUNCTIONxKAUST 2018 (Hackathon), King Abdullah University of Science & Technology, Saudi Arabia	
Product: "Used face recognition libraries to develop AlTagger - 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], Almaty, Kazakhstan	
10-week intensive program for selected participants (20% acceptance rate): Python, Numpy, Pandas, regression and classi	fication
models, neural networks (basics), computer vision (basics), TensorFlow, data visualization, solving real cases of Kazakhstan	ni banks
and companies (Kaspi Lab)	2018
Yessenov Foundation Grant, Almaty, Kazakhstan	
Awarded with 1/20 generous grants for Data Science Lab (acceptance rate \sim 20%)	2018
Research Internship, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan	
Computational Neuroscience unit Supervisor: Prof Eric De Shutter	
Topic: "Sensitivity analysis for exact stochastic simulation of reaction-diffusion systems"	2018
ABC Hack (Hackathon), Astana, Kazakhstan	
Developed Android Mobile Application: enhancing functionality for a video job interview (winner)	2017
NFactorial Summer Startup Incubator, Almaty, Kazakhstan	
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, Tokai University (Sakura Exchange Program in Science), Tokyo, Japan	
Topic: "Programming active bone-conducted sound sensing for wearable interfaces" Supervisor: Prof Kentaro Takemura	2016
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