

# MAHMOUD AHMED

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Google Scholar

EDUCATION	<b>King Abdullah University of Science and Technology (KAUST)</b> Jeddah, KSA <i>M.S. in Computer Science</i> Sep 2023 – Present <ul style="list-style-type: none"><li>Cumulative GPA: 3.5/4.0.</li></ul>
	<b>The American University in Cairo (AUC)</b> Cairo, Egypt <i>B.S. in Computer Engineering</i> Sep 2017 – May 2022 <ul style="list-style-type: none"><li>Cumulative GPA: 3.903/4.0.</li><li>Minor: Mathematics.</li><li>Awards: Summa cum laude, Dean's List, and AUC Honors Assembly recognition (2022).</li></ul>
PUBLICATIONS	<ol style="list-style-type: none"><li><b>Mahmoud Ahmed*</b>, Junjie Fei*, Jian Ding, Eslam Mohamed Bakr, Mohamed Elhoseiny - "<i>Kestrel: Point Grounding Multimodal LLM for Part-Aware 3D Vision-Language Understanding</i>" - <b>Under Review, CVPR 2025</b></li><li><b>Mahmoud Ahmed</b>, Xiang Li, Arpit Prajapati, Mohamed Elhoseiny - "<i>3DCoMPaT200: Language Grounded Large-Scale 3D Vision Dataset for Compositional Recognition</i>" - <b>Neurips 2024</b></li><li>Eslam Abdelrahman, Mohamed Ayman, <b>Mahmoud Ahmed</b>, Habib Slim, Mohamed Elhoseiny - "<i>Cot3dref: Chain-of-thoughts data-efficient 3d visual grounding</i>" - <b>ICLR 2024</b></li><li>Habib Slim, Xiang Li, Yuchen Li, <b>Mahmoud Ahmed</b>, Mohamed Ayman, Ujjwal Upadhyay, Ahmed Abdelreheem, Arpit Prajapati, Suhail Pothigara, Peter Wonka, Mohamed Elhoseiny - "<i>3DCoMPaT++: An improved Large-scale 3D Vision Dataset for Compositional Recognition</i>" - <b>Under review, TPAMI, 2023.</b></li></ol>
EXPERIENCE	<b>Research Intern, Vision CAIR</b>   KAUST, Remote Mar 2023 – Aug 2023 <ul style="list-style-type: none"><li>Contributed to an accepted ICLR 2024 paper and a TPAMI under review paper</li><li>Prepared CVPR workshop challenge on the 3D CoMPaT++ dataset.</li></ul> <b>5G Software Engineer</b>   Dell Technologies, Cairo Jun 2022 – May 2023 <ul style="list-style-type: none"><li>Developed a lite platform for Near Real-time RIC to test different 5G components.</li><li>Implemented gRPC communication between E2 simulator and Lite platform.</li><li>Acted as Feature Owner for E2 Term component integration tests.</li></ul> <b>Data Science Intern</b>   Dell Technologies, Cairo Aug 2021 – May 2022 <ul style="list-style-type: none"><li>Developed machine learning and deep learning models for technology trends prediction.</li><li>Implemented Dell's HackTrick hackathon with reinforcement learning experiments.</li></ul> <b>Computer Vision Intern</b>   FaceOpen, Remote Jan 2021 – May 2021 <ul style="list-style-type: none"><li>Implemented and tested lite segmentation models for object tracking on microcontrollers.</li><li>Deployed a Mixture of Gaussians algorithm for object detection on STM microcontrollers.</li></ul>
AWARDS	<ul style="list-style-type: none"><li><b>First Place:</b> Cairo ICT 2021 AI Hackathon. Nov, 2021</li><li><b>Academic Scholarship</b>, American University in Cairo University Sep, 2017</li></ul>
SKILLS	<b>Languages:</b> Native Arabic, Fluent English <b>Programming:</b> PyTorch, NumPy, OpenCV, Cuda C, Git
ACADEMIC SERVICES	<b>Teaching Assistant For:</b> GPU Computing, AUC, Fall 2020