

Ahmed Abdelreheem

Deep Learning Researcher, PhD Candidate

✉ ahmed.abdelreheem@kaust.edu.sa

📄 <https://samir55.github.io/>

🌐 Samir55

🌐 [aabdelreheem95](#)

Education

- 05/2022 – **PhD in Computer Science**, *King Abdullah University of Science and Technology* (KAUST), Thuwal, Saudi Arabia, Advisor: Prof. Peter Wonka.
Present
- 03/2020 – **MS in Computer Science**, *King Abdullah University of Science and Technology* (KAUST), Thuwal, Saudi Arabia, Advisor: Prof. Peter Wonka.
05/2022
- 09/2015 – **BSc in Computer Engineering**, *Cairo University*, Cairo, Egypt, GPA: 3.71/4.0,
07/2019 Excellent with Honor.

Experience

- 06/2024 – **Research Intern**, *Niantic Labs*, London, UK.
11/2024 Joined Niantic London Research team working on fine-tuning 3D LLMs, 3D scene understanding, and 3D scene editing. The internship resulted in a filed patent and an ICCV 2025 paper. (Link).
- 06/2022 – **Research Intern**, *Snap Inc.*, Palo Alto, CA, USA.
10/2022 Joined Snap Research (Creative Vision team). Work accepted at WACV 2024. Link.
- 06/2021 – **Research Intern**, *Stanford University*, Remote.
08/2021 Joined Guibas Laboratory doing research on improving language-guided 3D scene understanding.
- 09/2019 – **Software Engineer**, *eJad*, Cairo, Egypt.
01/2020 Worked in research team on ADAS lane detection; researched road models and vision-based approaches; implemented an initial modular algorithm.
- 02/2019 – **Research Intern**, *Valeo*, Cairo, Egypt.
05/2019 Improved pedestrian detection using multispectral (thermal and color) image fusion; implemented baseline experiments and ported evaluation metric from Matlab to Python.
- 09/2018 – **Software Engineer**, *BlueCloud Technologies*, Cairo, Egypt.
01/2019 Part-time on HR Interview Bot: predicted big five personality traits from video using scene, audio, and face features.
- 05/2017 – **Student Developer**, *Google Summer of Code*, Cairo, Egypt.
08/2017 With BRL-CAD organization: added 3MF file format support in Slic3r; enabled conversions across 3D formats; added Doxygen docs and tests. (C++11)

Workshops

- ICCV 2023 Co-organizer: 3rd Workshop on Language for 3D Scenes. Link.
- ECCV 2022 Co-organizer: 2nd Workshop on Language for 3D Scenes. Link.

First-Author Publications

- ICCV 2025 **Placelt3D**: Language-Guided Object Placement in Real 3D Scenes.
[Ahmed Abdelreheem](#), Filippo Aleotti, James Watson, Zawar Qureshi, Abdelrahman Eldesokey, Peter Wonka, Gabriel Brostow, Sara Vicente, Guillermo Garcia-Hernando
- WACV 2024 **ScanEnts3D**: Exploiting Phrase-to-3D-Object Correspondences for Improved Visio-Linguistic Models in 3D Scenes.
[Ahmed Abdelreheem](#), Kyle Olszewski, Hsin-Ying Lee, Peter Wonka, Panos Achlioptas
- SIGGRAPH Asia 2023 **Zero-Shot 3D Shape Correspondence**.
[Ahmed Abdelreheem](#), Abdelrahman Eldesokey, Maks Ovsjanikov, Peter Wonka
- ICCV 2023 **SATR**: Zero-Shot Semantic Segmentation of 3D Shapes.
[Ahmed Abdelreheem](#), Ivan Skorokhodov, Maks Ovsjanikov, Peter Wonka
- WACV 2022 **3DRefTransformer**: Fine-Grained Object Identification in Real-World Scenes Using Natural Language.
[Ahmed Abdelreheem](#), Ujjwal Upadhyay, Ivan Skorokhodov, Rawan Al Yahya, Jun Chen, Mohamed Elhoseiny

Other Publications

- ICCV 2025 **ZeroKey**: Point-Level Reasoning and Zero-Shot 3D Keypoint Detection from Large Language Models.
Bingchen Gong, Diego Gomez, Abdullah Hamdi, Abdelrahman Eldesokey, [Ahmed Abdelreheem](#), Peter Wonka, Maks Ovsjanikov
- TPAMI 2025 **3DCoMPaT++**: An improved Large-scale 3D Vision Dataset for Compositional Recognition.
Habib Slim, Xiang Li, Yuchen Li, Mahmoud Ahmed, Mohamed Ayman, Ujjwal Upadhyay, [Ahmed Abdelreheem](#), Arpit Prajapati, Suhail Pothigara, Peter Wonka, Mohamed Elhoseiny
- ECCV 2022 **3DCoMPaT**: Composition of Materials on Parts of 3D Things.
(Oral) Ujjwal Upadhyay, Yuchen Li, Habib Slim, Tezuesh Varshney, [Ahmed Abdelreheem](#), Arpit Prajapati, Suhail Pothigara, Peter Wonka, Mohamed Elhoseiny
- ECCV 2020 **ReferIt3D**: Neural Listeners for Fine-Grained 3D Object Identification in Real-World Scenes.
(Oral) Panos Achlioptas, [Ahmed Abdelreheem](#), Fei Xia, Mohamed Elhoseiny, Leonidas Guibas

Awards

- 09/2025 **ICCV 2025 Doctoral Consortium**.
- 08/2023 **Dean's List Award**, *KAUST CEMSE Division*.
USD 2,500 award to top students for academic achievements
- 03/2020 **KAUST Fellowship**, *King Abdullah University of Science and Technology*.
- 04/2021 **ACM Sigmod Programming Contest**, *10th place*.
- 10/2018 **ACM Egyptian Collegiate Programming**, *80th/200 place*.
- 07/2010 **Egyptian Olympiad in Informatics**, *Bronze Medal*.

Technical Skills

DL PyTorch (proficient), TensorFlow (familiar)

Prog. Lang. Python (proficient), C++ (proficient)
Additional CUDA (familiar)

Academic Service

Reviewer: CVPR 2024 & 2025, ICCV 2023 & 2025, ECCV 2024, SIGGRAPH 2024, SIGGRAPH Asia 2023, 2024 & 2025, 3DV 2024, WACV 2023, 2024 & 2026

Teaching

TA in “CS225: Neural Network Design and Training”, taught by Prof. Peter Wonka at KAUST, 09/2025

TA in “CS323: Deep Learning for Visual Computing”, taught by Prof. Peter Wonka at KAUST, 09/2023