

Daniel Eskandar

📍 Tübingen, Germany

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MSc student in Machine Learning at the University of Tübingen. I build 3D virtual humans that interact plausibly with their surroundings: layered clothing (DAMA) and multi-object interactions (COSMI). I am seeking a PhD in virtual humans, 3D computer vision, and embodied AI.

PUBLICATIONS

COSMI: Compositional Synthesis of Multi-Object Interactions

Daniel Eskandar*, Ilya A. Petrov*, Gerard Pons-Moll (*equal contribution)

Preprint, under review

Project · [arXiv](#) · [Code](#)

Composes single-object captures into 222k multi-object sequences and trains a diffusion model on them.

DAMA: Disentangled Body-Anchored Gaussians for Controllable Multi-Layered Avatars

Daniel Eskandar, Berna Kabadayi, Garvita Tiwari, Gerard Pons-Moll

PhysHuman Workshop at CVPR 2026 ([Oral presentation](#))

Project · [arXiv](#) · [Code](#)

Reconstructs clothed avatars as separate garment layers that can be reordered, animated, and simulated.

RESEARCH EXPERIENCE



Real Virtual Humans group, Tübingen AI Center

Nov 2024 – Mar 2027

Supervisor: Prof. Dr. Gerard Pons-Moll

- Master's thesis: [COSMI](#) – composing and generating human interactions with multiple objects
- Research project: [DAMA](#) – layered, simulation-ready Gaussian avatars of clothed humans
- Practical project: [Gaussian Head Viewer](#) – interactive editing of Gaussian head avatars
- Research assistant: preprocessed data and ran baseline comparisons for [PhysHead](#) (CVPR 2026)

EDUCATION



MSc Machine Learning, University of Tübingen

Oct 2023 – Mar 2027 (expected)

Grade 1.2/1.0 · ELIZA scholarship recipient



BSc Communications and Computer Engineering, Cairo University

Sep 2017 – Jun 2022

GPA 3.94/4.0 · ranked 3rd in class



French Baccalauréat, Série S, Collège de la Sainte Famille, Cairo

Jun 2017

Grade 19.39/20 · ranked 2nd in Egypt

INDUSTRY EXPERIENCE



Software Engineer, Thirdwayv, Cairo

Oct 2020 – Sep 2023

Developed and optimized software for medical image analysis.

AWARDS



ELIZA Scholarship

Oct 2023 – Sep 2025

Research-oriented master's scholarship of the Konrad Zuse School ELIZA, funded by the DAAD

SKILLS AND LANGUAGES

Programming languages

Python, C/C++

Libraries / Frameworks

PyTorch, OpenGL, Blender, SMPL body models

3D & generative models

3D Gaussian splatting, NeRF, diffusion models, transformers

Languages

Arabic (native), English (C1), French (C1), Spanish (B2), German (B2)