

Nouran Sadek

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Education

Nov 2023 – Present

PhD in Human-Computer Interaction

Exertion Games Lab, Monash University, Australia

Thesis title: *Understanding the Design of Cognitive-Physical Training Systems for Sports in Extended Reality (XR)*

Feb 2021 – Feb 2023

MSc in Computer Science and Engineering

German University in Cairo (GUC)

Excellent with High Honors

Thesis title: *The Superhero Pose: Using Avatars to Exploit the Proteus Effect and Enhance Performance in Virtual Reality..*

Published from thesis: [🔗](#) NordiCHI2022, Full Paper [📺](#) Video Demo

Oct 2015 – July 2020

BSc in Computer Science and Engineering

German University in Cairo (GUC)

Excellent with Honors

Thesis title: *Give-Me-A-Hand: The Effect of Partner's Gender on Collaboration Quality in Virtual Reality.*

Published from thesis: [🔗](#) CHI2021, LBW [📺](#) Presentation Video

Research Publications




Journal Articles

- 1 F. F. Mueller, D. B. W. Postma, R. W. Van Delden, F. Daiber, **N.Sadek**, and D. Samitha, "Towards designing awe-inspiring elite athlete data-driven sports experiences," *ACM TOCHI*, 2025, Under review.
- 2 **N.Sadek**, F. Chiossi, N. Overdevest, R. Patibanda, F. F. Mueller, and D. S. Elvitigala, "Imagining greatness: Enhancing free-kick training through a messi-themed xr experience," *ACM IMWUT*, 2025, Under review.



Conference Proceedings

- 1 **N.Sadek**, P. Elagroudy, A. Khalil, and S. Abdennadher, "The superhero pose: Enhancing physical performance in exergames by embodying celebrity avatars in virtual reality," in *Nordic Human-Computer Interaction Conference*, ser. NordiCHI '22, Aarhus, Denmark: Association for Computing Machinery, 2022, ISBN: 9781450396998. [🔗](#) DOI: 10.1145/3546155.3546707.
- 2 A. Yassien, E. B. Makled, P. Elagroudy, **N.Sadek**, and S. Abdennadher, "Give-me-a-hand: The effect of partner's gender on collaboration quality in virtual reality," in *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems*, ser. CHI EA '21, Yokohama, Japan: Association for Computing Machinery, 2021, ISBN: 9781450380959. [🔗](#) DOI: 10.1145/3411763.3451601.

Experience

- Jan 2024 – Dec 2024  **Final Year Project Co-Supervisor**, Exertion Games Lab, Monash University, Australia
Supervised an undergraduate project on XR-based football kicking for physical skill development
Guided technical implementation in Unity3D, experimental methodology, and research framing
Co-supervised with Dr. Don Samitha Elvitigala
- Sep 2020 – Sep 2022  **Teaching and Research Assistant**, German University in Cairo, Egypt
- Game Development (Unity 3D): Taught 4 classes (19-25 students each), created assignments and project specifications for endless runner, narrative-driven, and Apex Legends and The Legend of Zelda: Breath of the Wild inspired games
 - Software Engineering (MERN Stack): Taught 4 classes, guided web development process, supported implementation of a classroom reservation system
 - Advanced Databases: Taught 6 classes, explained database optimization techniques, evaluated assessments
 - Contributed to HCI research team working on VR applications
-  **Bachelor Thesis Co-Supervisor**, German University in Cairo, Egypt
Supervised multiple undergraduate theses on Social VR, Sports Training in VR, and Interactive Storytelling in VR
Provided support in technical implementation and experimental design
Co-supervised with Prof. Slim Abdennadher
- Jun 2018 – Aug 2018  **Game Development Intern**, Explore Agora, Cairo, Egypt
Contributed to an educational AR Android application for STEM learning
Implemented features using Unity3D, ARCore, and Vuforia
- Feb 2017 – Apr 2019  **Junior Teaching Assistant**, German University in Cairo, Egypt
Provided technical support and conceptual guidance to first and second-year engineering students
Assisted with programming courses: Python, Java, Data Structures, PROLOG, and Haskell

Awards and Achievements

- 2023  **Scholarship Award**, Monash Graduate Scholarship, Monash University.
- 2020  **Graduate Tuition Waiver**, Granted full exemption from M.Sc. tuition through Teaching & Research Assistantship, German University in Cairo (GUC).