

Badour AlBahar

ASSISTANT PROFESSOR IN THE DEPARTMENT OF COMPUTER ENGINEERING AT KUWAIT UNIVERSITY

Sabah Al-Salem University City, Kuwait

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Research Interest

My research interests lie in the areas of Computer Vision, Deep Learning, and Artificial Intelligence. I am particularly interested in the intersection of Computer Vision and generative AI, with a focus on controllable visual synthesis.

Education

Ph.D. in Computer Engineering

THESIS: "CONTROLLABLE VISUAL SYNTHESIS."

Advisor: Jia-Bin Huang

Virginia Tech, USA

August 2018 - May 2023

M.S. in Computer Engineering

THESIS: "IM2VID: FUTURE VIDEO PREDICTION FOR STATIC IMAGE ACTION RECOGNITION."

Advisor: Jia-Bin Huang

Virginia Tech, USA

August 2016 - May 2018

B.S. in Computer Engineering

DISTINCTION WITH CLASS HONORS

Kuwait University, Kuwait

September 2010 - July 2014

Teaching Experience

INSTRUCTOR, KUWAIT UNIVERSITY, KUWAIT

CpE 433: Computer Vision and Image Processing

Fall 2025, Spring 2026

CpE 207: Data Structures

Spring 2025, Summer 2025, Spring 2026

CpE 201: Advanced Programming

Fall 2024, Spring 2025, Fall 2025, Summer 2026

ENG 200: Computer Programming for Engineers

Fall 2024

GUEST LECTURER, VIRGINIA TECH, USA

Lecture title: "Controllable Visual Synthesis"

Spring 2022

INVITED GUEST LECTURE FOR CS4664 / DATA-CENTRIC COMPUTING

CAPSTONE, TAUGHT BY INSTRUCTOR MOHANNAD ELHAMOD

TALKS

Talk title: "Pose with Style"

March 24, 2022

INVITED SPEAKER, WOMEN IN DATA SCIENCE (WIDS) DHAHRAN, KFUPM WORKSHOP. A HYBRID EVENT HOSTED AT KING FAHAD UNIVERSITY OF PETROLEUM AND MINERALS (KFUPM).

Work Experience

Kuwait University

ASSISTANT PROFESSOR, COMPUTER ENGINEERING DEPARTMENT

Sabah Al-Salem University
City, Kuwait
June 2023 - present

Meta

RESEARCH INTERN

Worked with Shunsuke Saito, Hung-Yu Tseng, Changil Kim, Xuejian Rong, Ayush Saraf, Johannes Kopf, and Jia-Bin Huang.

Seattle, Washington
January 2022 - May 2022

Adobe Research

RESEARCH INTERN

Worked with Jimei Yang, Cynthia Lu, Yang Zhou, Zhixin Shu, and Eli Shechtman.

San Jose, California
Summer 2021

Kuwait National Petroleum Company

COMPUTER ENGINEER - COMPUTER OPERATIONS AND ADMINISTRATION, DATA
CENTER OPERATIONS DIVISION

Ahmadi, Kuwait
February 2015 - July 2016

Publications

JOURNAL ARTICLES

Pose with Style: Detail-Preserving Pose-Guided Image Synthesis with Conditional StyleGAN

Badour AlBahar, Jingwan Lu, Jimei Yang, Zhixin Shu, Eli Shechtman, Jia-Bin Huang
ACM Transactions on Graphics (2021). 2021

CONFERENCE PROCEEDINGS

Single-Image 3D Human Digitization with Shape-Guided Diffusion

Badour AlBahar, Shunsuke Saito, Hung-Yu Tseng, Changil Kim, Johannes Kopf, Jia-Bin Huang
SIGGRAPH Asia, 2023

Temporally Consistent Semantic video Editing

Yiran Xu, Badour AlBahar, Jia-Bin Huang
Proceedings of the IEEE European Conference on Computer Vision, 2022

Guided Image-to-Image Translation with Bi-Directional Feature Transformation

Badour AlBahar, Jia-Bin Huang
Proceedings of the IEEE International Conference on Computer Vision, 2019

PREPRINTS

Illusion3D: 3D Multiview Illusion with 2D Diffusion Priors

Yue Feng, Vaibhav Sanjay, Spencer Lutz, Badour AlBahar, Songwei Ge, Jia-Bin Huang
(2024). 2024

Text-driven Visual Synthesis with Latent Diffusion Prior

Ting-Hsuan Liao, Ge Songwei, Xu Yiran, Yao-Chih Lee, AlBahar Badour, Jia-Bin Huang
(2023). 2023

Honors & Awards

Full scholarship to pursue M.S. and Ph.D. degrees.

KUWAIT UNIVERSITY SCHOLARSHIP PROGRAM

Khaldiya, Kuwait

August 2016

Valedictorian of the Graduates of Excellence Class of 2013/2014

GRADUATES OF EXCELLENCE CEREMONY CLASS OF 2013/2014 UNDER THE PATRONAGE AND PRESENCE OF THE AMIR OF KUWAIT

Shuwaikh, Kuwait

March 2015

Top 10 students graduating from College of Engineering and Petroleum for the academic year of 2013/2014

GRADUATES OF EXCELLENCE CEREMONY CLASS OF 2013/2014 UNDER THE PATRONAGE AND PRESENCE OF THE AMIR OF KUWAIT

Shuwaikh, Kuwait

March 2015

Dean's Honor list and Outstanding Students list

COLLEGE OF ENGINEERING AND PETROLEUM, KUWAIT UNIVERSITY

Khaldiya, Kuwait

2012 - 2014

Top Outstanding Student Award

KUWAIT UNIVERSITY

Khaldiya, Kuwait

2012

Award of Excellence and Creativity from the Amir Sheikh Sabah AlAhmad Al-Jaber Al-Sabah

MINISTRY OF EDUCATION

Khaldiya, Kuwait

June 2013

Academic Service

Cultural and Social Activities and Scientific Lectures Committee, Computer Engineering Department

COORDINATOR

2025–2026

Engineering Capstone Design Expo Awards Assessment Committee, College of Engineering and Petroleum

MEMBER

Spring 2025

Capstone Design TAG Committee, Computer Engineering Department

MEMBER

2024–2026

Student Affairs Committee Member, Computer Engineering Department

MEMBER

2024–2026

Reviewing Activities

SIGGRAPH

2022, 2023, 2025

SIGGRAPH Asia

2023

Conference on Computer Vision and Pattern Recognition (CVPR)

2023, 2026

International Conference on Computer Vision (ICCV)

2021, 2023, 2025

European Conference on Computer Vision (ECCV)

2024