

TALI DEKEL | CURRICULUM VITAE

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www.weizmann.ac.il/math/dekel/

EDUCATION

PH.D. ELECTRICAL ENGINEERING

Tel-Aviv University, Israel

Direct track towards a Ph.D.

Advisors: Prof. Yael Moses and Prof. Shai Avidan

2009-2014

(formally approved in Feb 2015)

INTERN

Disney Research, ETH University, Switzerland

Host: Prof. Wojciech Matusik

2010

M.SC. ELECTRICAL ENGINEERING, CUM LAUDE

Tel-Aviv University, Israel

Direct track toward an M.Sc.

Advisors: Prof. Yael Moses and Prof. Nahum Kiryati

2007-2009

B.SC. ELECTRICAL ENGINEERING, CUM LAUDE

Tel Aviv University, Israel

Major in signal processing, software engineering

2004-2007

EXPERIENCE (RESEARCH & INDUSTRY)

ASSOCIATE PROFESSOR

Department of Mathematics and Computer Science, Weizmann Institute of Science

Pending final approval in Nov. 2024.

2024

SENIOR SCIENTIST

Department of Computer Science & Applied Mathematics, Weizmann Institute of Science

Tenure track

2021-2024

STAFF RESEARCH SCIENTIST

Google Inc., Machine Perception Group

2016-Now

POSTDOCTORAL ASSOCIATE

MIT Computer Science & Artificial Intelligence Lab (CSAIL)

Host: Prof. William T. Freeman

2014-2016

HONORS AND AWARDS

BEST PAPER AWARD (MARR PRIZE), ICCV

Granted to one paper out of more than 4000 submissions

2019

BEST PAPER HONORABLE MENTION AWARD, CVPR

Granted to two papers out of more than 5000 submissions

2019

SAMSON - PRIME MINISTER'S RESEARCHER RECRUITMENT PRIZE

Granted by Keren Hayesod

I'm the first woman to receive it ([LINK](#))

2019

[HTTPS://WWW.FUELCHOICESSUMMIT.COM/AWARD.ASPX](https://www.fuelchoicessummit.com/award.aspx)

ALLON FELLOWSHIP FOR OUTSTANDING YOUNG RESEARCHERS

Israeli Academy of Science

2019

[ALON-FELLOWSHIPS-FOR-OUTSTANDING-YOUNG-RESEARCHERS](#)

RISING STARS IN EECS

hosted by CMU

2016

[HTTP://RISINGSTARS.ECE.CMU.EDU/TALI-DEKEL/](http://risingstars.ece.cmu.edu/tali-dekel/)

ROTHSCHILD POSTDOCTORAL FELLOWSHIP

Yad-Hanadiv

2015

[HTTP://YADHANADIV.INFO/RECIPIENT/TALI-DEKEL](http://yadhanadiv.info/recipient/tali-dekel/)

THE NATIONAL POSTDOCTORAL AWARD FOR ADVANCING WOMEN IN SCIENCE

The Weizmann Institute

2014

[HTTPS://WWW.WEIZMANN.AC.IL/WOMENINSCIENCE/](https://www.weizmann.ac.il/womeninscience/)

PROF. NORMAN W. ROSENBERG MEMORIAL PRIZE

Tel-Aviv University

2013

IN THE MEDIA - SAMPLE BLOGS AND INTERVIEWS

Extended media coverage: <https://www.weizmann.ac.il/math/dekel/blogs-and-media-coverage>

THE WEIZMANN MAGAZINE Reimaging Images https://wis-wander.weizmann.ac.il/math-computer-science/reimaging-images	2024
LDV CAPITAL 120+ Women Spearheading Advances in Visual Tech and AI https://www.ldv.co/blog/women-spearheading-advances-in-visual-tech-and-ai	2024
THEMARKER Interview about my research and generative AI https://www.themarker.com/magazine/2022-12-07/ty-article-magazine/.premium/00000184-e785-db97-a99d-e7f7dc380000	2023
YNET Interview about my research and generative AI https://www.ynet.co.il/digital/technology/article/s1ypgsnws	2023
GOOGLE RESEARCH BLOG "Introducing Omnimattes: A New Approach to Matte Generation using Layered Neural Rendering" https://ai.googleblog.com/2021/08/introducing-omnimattes-new-approach-to.html	2021
GOOGLE RESEARCH BLOG "Moving Camera, Moving People: A Deep Learning Approach to Depth Prediction" https://ai.googleblog.com/2019/05/moving-camera-moving-people-deep.html	2019
MIT NEWS "Creating 3-D-printed "motion sculpture" from 2-D videos" https://news.mit.edu/2018/creating-3-d-printed-motion-sculptures-from-2-d-videos-mit-csail-0919	2018
GOOGLE RESEARCH BLOG "Looking to Listen: Audio-Visual Speech Separation" https://ai.googleblog.com/2018/04/looking-to-listen-audio-visual-speech.html	2018
GOOGLE RESEARCH BLOG "Making Visible Watermarks More Effective" https://ai.googleblog.com/2017/08/making-visible-watermarks-more-effective.html ranked among the top 10 blogs of 2017	2017

RECENT ACADEMIC SERVICE

CVPR PROGRAM CHAIR	2025
ECCV AREA CHAIR	2024
ECCV AREA CHAIR	2022
SIGGRAPH PROGRAM COMMITTEE	2022-2021
ICCP PROGRAM COMMITTEE	2021
CVPR WORKSHOP CHAIR	2021
ICCP PROGRAM COMMITTEE	2021

OTHER COMMUNITY & RESEARCH ACTIVITIES

CO-ORGANIZER AT THE AI FOR CONTENT CREATION (AI4CC) WORKSHOP CVPR	2022
CO-ORGANIZER AT THE COMPUTATIONAL CAMERAS AND DISPLAYS (CCD) WORKSHOP CVPR	2022
PANELIST AT THE BERTHOUSOZ WIGRAPH WOMEN IN RESEARCH EVENT SIGGRAPH	2021
CO-ORGANIZER AT THE DEEP INTERNAL LEARNING (DIL) WORKSHOP ECCV	2020

TEACHING

DL4CV: DEEP LEARNING FOR COMPUTER VISION: FUNDAMENTALS AND APPLICATIONS Leading and teaching a flagship course on the fundamentals of deep learning focusing on vision applications. HTTPS://DL4CV.GITHUB.IO	Now-2021
ADVANCED TOPICS IN COMPUTER VISION AND DEEP LEARNING	Now-2021

SAMPLE RECENT KEYNOTES & INVITED TALKS

THE ANNUAL CONFERENCE OF THE EUROPEAN ASSOCIATION FOR COMPUTER GRAPHICS (EUROGRAPHICS) "The Future of Video Generation: Beyond Data and Scale"	2024 Keynote Speaker
FRONTIERS IN CONTROLLABLE VIDEO GENERATION WORKSHOP, ICML "The Future of Video Generation: Beyond Data and Scale"	2024 Invited Speaker
AI FOR CONTENT CREATION (AI4CC) WORKSHOP, CVPR "The Future of Video Generation: Beyond Data and Scale"	2024 Invited Speaker
WORKSHOP ON DIFFUSION MODELS, NEURIPS "Pretrained Diffusion Are All We Need"	2023 Invited Speaker
STANFORD CENTER FOR IMAGE SYSTEM ENGINEERING SEMINAR "Strong Interpretable Priors Are All We Need"	2023 Invited Speaker
BERKELEY COMPUTER VISION AND GRAPHICS SEMINAR "Strong Interpretable Priors Are All We Need"	2023 Invited Speaker
THE INDIAN CONFERENCE ON COMPUTER VISION, GRAPHICS AND IMAGE PROCESSING (ICVGIP) "Strong Interpretable Priors Are All We Need"	2022 Plenary talk
WHAT IS MOTION WORKSHOP, ECCV "Layered Neural Representations for Consistent Video Editing"	2022 Invited Speaker
TEXT IN EVERYTHING WORKSHOP, ECCV "Text-Guided Layered Image and Video Editing"	2022 Invited Speaker
AI WEEK, BLAVATNIK INTERDISCIPLINARY CYBER RESEARCH CENTER AT TEL AVIV UNIVERSITY "Layered Neural Atlases for Consistent Video Editing"	2022 Keynote Speaker
UNSUPERVISED 3D LEARNING IN THE WILD, WORKSHOP, ICCV "Layered Neural Representations for Consistent Video Editing"	2021
AI FOR CONTENT CREATION WORKSHOP, CVPR "Analyzing and Re-rendering Everyday Videos"	2021

GRANTED PATENTS

TEXT-BASED REAL IMAGE EDITING WITH DIFFUSION MODELS	2023
SPLICING VIT FEATURES FOR SEMANTIC APPEARANCE TRANSFER	2022
SYSTEM AND METHODS FOR IDENTIFYING AND EXTRACTING OBJECT-RELATED EFFECTS IN VIDEOS	2022

DEPTH DETERMINATION FOR IMAGES CAPTURED WITH A MOVING CAMERA AND REPRESENTING MOVING FEATURES	2022
MODEL FOR DETERMINING CONSISTENT DEPTH OF MOVING OBJECTS IN VIDEO	2021
AUDIO-VISUAL SPEECH SEPARATION	2020
RE-TIMING PBJECTS IN VIDEO VIA LAYERED NEURAL RENDERING	2020
DEVIATION MAGNIFICATION: REVEALING DEPARTURES FROM IDEAL GEOMETRIES	2019

GRANTS

NEURAL OMNIVIDEO: FUSING WORLD KNOWLEDGE INTO SMART VIDEO-SPECIFIC MODELS European Research Council (ERC)	2023-2028 ERC Starting grant
NEW DIMENTIONS OF VISUAL SIMILARITY AND THEIR APPLICATIONS Sagol Weizmann - MIT Bridge Program	2023-2025
ANALYZING AND RE- RENDERING DYNAMIC SCENES Israeli Foundation of Science (ISF)	2020-2024
NEW FACULTY EQUIPMENT GRANT Israeli Foundation of Science (ISF)	2020-unlimited
GENERATION MEETS DEEPPFAKE DETECTION Israeli Ministry of Defense (IMOD)	2023-2024

STUDENTS

NAREK TUMANYAN Graduated MSc, admitted to Direct PhD track	2021-Today
RAFAIL FRIDMAN Graduated MSc, admitted to Direct PhD track	2021-Today
MICHAL GEYER Graduated MSc, continued to PhD	2022-Today
OMRI KADURI PhD	2024-Today
AMIT ABECASIS MSc	2022-Today
DANAH YATIM MSc	2023-Today
GUY NEVET-GOLAN MSc	2022-Today with Prof. Sarel Fleishman
OMER BAR-TAL Graduated MSc, admitted to Direct PhD track	2022-Today
SHIR AMIR MSc	2021-2022
DOLEV OFRI MSc	2021-2023
NETANEL TAMIR MSc	2022-2024