Or Litany

Contact Information

Assistant Professor, Technion
and Senior Research Scientist, NVIDIA.

E-mail: orlitany at gmail dot com
Homepage: `https://orlitany.github.io`
Google Scholar: link

Research Interests

AI for Generative and Perception tasks in 3D Computer Vision and Graphics.

Education

Tel Aviv University, Tel Aviv, Israel

Ph.D., Electrical Engineering, October 2018
Advisor: Prof. Alex M. Bronstein

Tel Aviv University, Tel Aviv, Israel

M.Sc., Electrical Engineering, August 2012

Hebrew University, Jerusalem, Israel

B.Sc., Physics and Mathematics, August 2005

Research Experience

Technion –- Israel Institute of Technology
Assistant Professor — **September 2023 - Present**

NVIDIA
Sr. Research Scientist — **August 2020 - Present**
Manager: Prof. Sanja Fidler

Stanford University, CA, USA
Postdoctoral Researcher — **September 2019 - August 2020**
Advisor: Prof. Leonidas Guibas

Facebook AI Research, CA, USA
Postdoctoral Researcher — **September 2018 - September 2019**
Hosts: Prof. Leonidas Guibas and Prof. Jitendra Malik

Technion, Haifa, Israel
Postdoctoral Researcher — **April 2018 - August 2018**
Advisor: Prof. Alex Bronstein

Google TLV
Research Intern — **December 2017 - August 2018**
Transfer learning algorithms in Deep Learning; Host: Dr. Daniel Freedman

Google NYC
Research Intern — **July 2017 - October 2017**
Geometric deep-learning for shape completion

Intel Perceptual Computing
Research Intern — **July 2016 - June 2017**

3D shape correspondence

Microsoft Research
Research Intern **February 2015 - December 2016**
3D scene understanding and reconstruction for VR

Technische Universität München, Munich, Germany
Visiting Scholar **March - May 2016,**
Working on 3D shape analysis; Host: Prof. Daniel Cremers **and April 2017**

Duke University, North Carolina, USA
Visiting Scholar **November 2014**
Working on Computational Photography; Host: Prof. Guillermo Sapiro

Honors and Awards

CVPR Outstanding Area Chair, 2026
ICCV Outstanding reviewer, 2023
ICML Outstanding Paper Award (2 of 4,990 submissions), 2020
ICCV Best Paper Nomination (11 of 4,300 submissions), 2019
ICLR LLD workshop Best Paper Award, 2019
Elsevier Outstanding Reviewer, 2017
SGP Best Paper Award, 2016
Microsoft Research top talent intern, 2016
Weinstein prize for graduate studies, 2015
Tel Aviv University: graduated Magna Cum Laude, 2012

Fellowships and Grants

TERA (Technion-Rambam Initiative in Medical AI) Research Grant, 2026
AI for Science Moonshot grant (VATAT), 2026
Israel Science Foundation (ISF) Personal Research Grant, 2025
Israel Science Foundation (ISF) New-Faculty Equipment Grant, 2025
Jacobs Technion-Cornell Institute Faculty Exchange Travel Grant, 2025
Meta academic gift, 2023
Azrieli Early Career Faculty Fellowship, 2023
Taub Fellowship, 2023
MISTI MIT Israel Zuckerman STEM Fund, 2023
German Academic Exchange Service (DAAD) research grant, 2016
Google travel grant, 2014
European Laboratory for Learning and Intelligent Systems (ELLIS) Scholar

Publications

* Equal contribution.

1. "VideoMDM: Towards 3D Human Motion Generation From 2D Supervision", A.Mann, G.Harari, M.Keidar, O.Litany, NeurIPS 2026.
2. "Learnable Spectral Activations", T.Shor, O.Litany, A.Bronstein, NeurIPS 2026.

3. “SpectralSplats: Robust Differentiable Tracking via Spectral Moment Supervision”, A.Cohen-Rimon, A.Mann, M.Ben-Chen, O.Litany, ECCV 2026.
4. “RadarGen: Automotive Radar Point Cloud Generation from Cameras”, T.Borreda, F.Ding, S.Fidler, S.Huang, O.Litany, ECCV 2026.
5. “Retrieval-Augmented Gaussian Avatars: Improving Expression Generalization”, M.Levy, G.Habib, I.Tzachor, D.Samuel, R.Ben-Ari, N.Darshan, O.Litany, D.Lischinski, ECCV 2026 Workshop on Interactive Social Avatars (ISA).
6. “Prox-E: Fine-Grained 3D Shape Editing via Primitive-Based Abstractions”, E.Sella, H.Phung, N.Amiel, O.Litany, O.Patashnik, H.Averbuch-Elor, SIGGRAPH 2026.
7. “Test-Time Training with KV Binding Is Secretly Linear Attention”, J.Liu, S.Elflein, O.Litany, Z.Gojcic, R.Li, ICML 2026.
8. “Realiz3D: 3D Generation Made Photorealistic via Domain-Aware Learning”, I.Sobol, K.Sohn, Y.Blum, E.Zakharov, M.Bluvstein, A.Vedaldi, O.Litany, CVPR 2026.
9. “InstructMix2Mix: Consistent Sparse-View Editing Through Multi-View Model Personalization”, D.Gilo, O.Litany, CVPR 2026.
10. “DiffusionHarmonizer: Bridging Neural Reconstruction and Photorealistic Simulation with Online Diffusion Enhancer”, Y.Zhang, K.Tóthová, Z.Wang, K.Yin, H.Turki, R.de-Lutio, Y.Chang, O.Litany, S.Fidler, Z.Gojcic, CVPR 2026.
11. “Time-to-Move: Training-Free Motion Controlled Video Generation via Dual-Clock Denoising”, A.Singer, N.Rotstein, A.Mann, R.Kimmel, O.Litany, ICLR 2026.
12. “SpaceControl: Introducing Test-Time Spatial Control to 3D Generative Modeling”, E.Fedele, F.Engelmann, I.Huang, O.Litany, M.Pollefeys, L.Guibas, ICLR 2026.
13. “Appreciate the View: A Task-Aware Evaluation Framework for Novel View Synthesis”, S.Stern, I.Sobol, O.Litany, 3DV 2026.
14. “Gaussian See, Gaussian Do: Semantic 3D Motion Transfer from Multiview Video”, Y.Bekor, G.Harari, O.Perel, O.Litany, SIGGRAPH-ASIA 2025.
15. “A Lesson in Splats: Teacher-Guided Diffusion for 3D Gaussian Splats Generation with 2D Supervision”, C.Peng, I.Sobol, M.Tomizuka, K.Keutzer, C.Xu, O.Litany, ICCV 2025.
16. “MonSTeR: a Unified Model for Motion, Scene, Text Retrieval”, L.Collorone, M.Gioia, M.Pappa, P.Leoni, G.Ficarra, O.Litany, I.Spinelli, F.Galasso, ICCV 2025.
17. “FRIDU: Functional Map Refinement with Guided Image Diffusion”, A.Cohen-Rimon, M.Ben-Chen, O.Litany, SGP 2025.
18. “OmniRe: Omni Urban Scene Reconstruction”, Z.Chen, J.Yang, J.Huang, R.de-Lutio, J.Martinez-Esturo, B.Ivanovic, O.Litany, Z.Gojcic, S.Fidler, M.Pavone, L.Song, Y.Wang, ICLR 2025 Spotlight.
19. “Epi-NAF: Enhancing Neural Attenuation Fields for Limited-Angle CT with Epipolar Consistency Conditions”, D.Gilo, T.Klinghoffer, O.Litany, ISBI 2025 Oral.
20. “ReHub: Linear Complexity Graph Transformers with Adaptive Hub-Spoke Reassignment”, T.Borreda, D.Freedman, O.Litany, TMLR.
21. “Robust Symmetry Detection via Riemannian Langevin Dynamics”, J.Je, J.Liu, G.Yang, B.Deng, S.Cai, G.Wetzstein, O.Litany, L.Guibas, SIGGRAPH-ASIA 2024.
22. “Zero-to-Hero: Enhancing Zero-Shot Novel View Synthesis via Attention Map Filtering”, I.Sobol, C.Xu, O.Litany, NeurIPS 2024.
23. “The NeRFect Match: Exploring NeRF Features for Visual Localization”, Q.Zhou, M.Maximov, O.Litany, L.Leal-Taixé, ECCV 2024.
24. “Dynamic LiDAR Re-simulation using Compositional Neural Fields”, H.Wu, X.Zuo, S.Leutenegger, O.Litany, K.Schindler, S.Huang, CVPR 2024.
25. “3DiffTection: 3D Object Detection with Geometry-Aware Diffusion Features”, C.Xu, H.Ling, S.Fidler, O.Litany, CVPR 2024.
26. “UnScene3D: Unsupervised 3D Instance Segmentation for Indoor Scenes”, D.Rozenberszki, O.Litany, A.Dai, CVPR 2024.
27. “Approximately Piecewise E(3) Equivariant Point Networks”, M.Atzmon, J.Huang, F.Williams, O.Litany, ICLR 2024.
28. “EmerNeRF: Emergent Spatial-Temporal Scene Decomposition via Self-Supervision”, J.Yang,

B.Ivanovic, O.Litany, X.Weng, S.Kim, B.Li, T.Che, D.Xu, S.Fidler, M.Pavone, Y.Wang, ICLR 2024.

29. "STMC: Multi-Track Timeline Control for Text-Driven 3D Human Motion Generation", M.Petrovich, O.Litany, U.Iqbal, M.Black, G.Varol, X.Peng, D.Rempe, CVPR 2024 Workshop on Human Motion Generation.
30. "Semi-Supervised Semantic Segmentation via Marginal Contextual Information", M.Kimhi, S.Kimhi, E.Zheltonozhskii, O.Litany, C.Baskin, TMLR.
31. "Neural LiDAR Fields for Novel View Synthesis", S.Huang, Z.Gojcic, Z.Wang, F.Williams, Y.Kasten, S.Fidler, K.Schindler, O.Litany, ICCV 2023.
32. "Towards Viewpoint Robustness in Bird's Eye View Segmentation", T.Klinghoffer, J.Philion, W.Chen, O.Litany, Z.Gojcic, J.Joo, R.Raskar, S.Fidler, J.Alvarez, ICCV 2023.
33. "Neural Kernel Surface Reconstruction", J.Huang, Z.Gojcic, M.Atzmon, O.Litany, S.Fidler, F.Williams, CVPR 2023 Highlight (top 10% of accepted papers).
34. "Trace and Pace: Controllable Pedestrian Animation via Guided Trajectory Diffusion", D.Rempe, Z.Luo, X.Peng, Y.Yuan, K.Kitani, K.Kreis, S.Fidler, O.Litany, CVPR 2023.
35. "Fast Monocular Scene Reconstruction with Global-Sparse Local-Dense Grids", W.Dong, C.Choy, C.Loop, Y.Zhu, O.Litany, A.Anandkumar, CVPR 2023.
36. "Mask3D for 3D Semantic Instance Segmentation", J.Schult, F.Engelmann, A.Hermans, O.Litany, S.Tang, B.Leibe, ICRA 2023.
37. "GET3D: A Generative Model of High Quality 3D Textured Shapes Learned from Images", J.Gao, T.Shen, Z.Wang, W.Chen, K.Yin, D.Li, O.Litany, Z.Gojcic, S.Fidler, NeurIPS 2022.
38. "LION: Latent Point Diffusion Models for 3D Shape Generation", X.Zeng, A.Vahdat, F.Williams, Z.Gojcic, O.Litany, S.Fidler, K.Kreis, NeurIPS 2022.
39. "Language-Grounded Indoor 3D Semantic Segmentation in the Wild", D.Rozenberszki, O.Litany, A.Dai, ECCV 2022.
40. "MvDeCor: Multi-view Dense Correspondence Learning for Fine-grained 3D Segmentation", G.Sharma, K.Yin, S.Maji, E.Kalogerakis, O.Litany, S.Fidler, ECCV 2022.
41. "Learning Smooth Neural Functions via Lipschitz Regularization", H.Liu, F.Williams, A.Jacobson, S.Fidler, O.Litany, SIGGRAPH 2022.
42. "Learning Spectral Unions of Partial Deformable 3D Shapes", L.Moschella, S.Melzi, L.Cosmo, F.Maggioli, O.Litany, M.Ovsjanikov, L.Guibas, E.Rodolà, Eurographics 2022.
43. "Generating Useful Accident-Prone Driving Scenarios via a Learned Traffic Prior", D.Rempe, J.Philion, L.Guibas, S.Fidler, O.Litany, CVPR 2022.
44. "Neural Fields as Learnable Kernels for 3D Reconstruction", F.Williams*, Z.Gojcic*, S.Khamis, D.Zorin, J.Bruna, S.Fidler, O.Litany, CVPR 2022.
45. "Neural Fields in Visual Computing and Beyond", Y.Xie, T.Takikawa, S.Saito, O.Litany, S.Yan, N.Khan, F.Tombari, J.Tompkin, V.Sitzmann, S.Sridhar, Eurographics 2022 STAR.
46. "Contrast to Divide: Self-Supervised Pre-Training for Learning with Noisy Labels", E.Zheltonozhskii, C.Baskin, A.Mendelson, A.Bronstein, O.Litany, WACV 2022.
47. "DIB-R++: Learning to Predict Lighting and Material with a Hybrid Differentiable Renderer", W.Chen, J.Litalien, J.Gao, Z.Wang, C.Tsang, S.Khamis, O.Litany, S.Fidler, NeurIPS 2021.
48. "Mix3D: Out-of-Context Data Augmentation for 3D Scenes", A.Nekrasov, J.Schult, O.Litany, B.Leibe, F.Engelmann, 3DV 2021.
49. "Vector Neurons: A General Framework for SO(3)-Equivariant Networks", C.Deng, O.Litany, Y.Duan, A.Poulenard, A.Tagliasacchi, L.Guibas, ICCV 2021.
50. "ReLMoGen: Integrating Motion Generation in Reinforcement Learning for Mobile Manipulation", F.Xia, C.Li, R.Martín-Martín, O.Litany, A.Toshev, S.Savarese, ICRA 2021.
51. "Weakly Supervised Learning of Rigid 3D Scene Flow", Z.Gojcic, O.Litany, A.Wieser, L.Guibas, T.Birdal, CVPR 2021.
52. "Causal BERT: Improving Object Detection by Searching for Challenging Groups", C.Resnick, O.Litany, A.Kar, K.Kreis, J.Lucas, K.Cho, S.Fidler, ICCV workshop.
53. "3DIoUMatch: Leveraging IoU Prediction for Semi-Supervised 3D Object Detection", H.Wang*, Y.Cong*, O.Litany, Y.Gao, L.Guibas, CVPR 2021.
54. "Representation Learning Through Latent Canonicalizations", O.Litany, A.Morcos, S.Sridhar,

L.Guibas, J.Hoffman, WACV 2021.

55. "Continuous Geodesic Convolutions for Learning on 3D Shapes", Z.Yang, O.Litany, T.Birdal, S.Sridhar, L.Guibas, WACV 2021.
56. "Learned Equivariant Rendering without Transformation Supervision", C.Resnick, O.Litany, H.Larochelle, J.Bruna, K.Cho, Neurips 2020 DiffCVGP workshop.
57. "PointContrast: Unsupervised Pre-training for 3D Point Cloud Understanding", S.Xie, J.Gu, D.Guo, C.Qi, L.Guibas, O.Litany, ECCV 2020 Spotlight.
58. "Towards Precise Completion of Deformable Shapes", O.Halimi, I.Imanuel, O.Litany, G.Trappolini, E.Rodolà, L.Guibas, R.Kimmel, ECCV 2020.
59. "On Learning Sets of Symmetric Elements", H.Maron, O.Litany, G.Chechik, E.Fetaya, ICML 2020 Outstanding Paper Award.
60. "ImVoteNet: Boosting 3D Object Detection in Point Clouds with Image Votes", C.Qi, X.Chen, O.Litany, L.Guibas, CVPR 2020.
61. "Deep Hough Voting for 3D Object Detection in Point Clouds", C.Qi, O.Litany, K.He, L.Guibas, ICCV, 2019 Best Paper Nomination.
62. "Dual-primal graph convolutional networks", F.Monti, O.Shchur, A.Bojchevski, O.Litany, S.Günnemann, M.Bronstein, GEM workshop at ECML-PKDD, 2019 Oral presentation.
63. "SOSELETO: A Unified Approach to Transfer Learning and Training with Noisy Labels", O.Litany, D.Freedman, ICLR workshop on Learning from Limited Labeled Data, 2019 Best Paper Award.
64. "Unsupervised Learning of Dense Shape Correspondence", O.Halimi, O.Litany, E.Rodolà, A.Bronstein, R.Kimmel, Computer Vision and Pattern Recognition (CVPR), 2019 Oral presentation.
65. "Deformable Shape Completion with Graph Convolutional Autoencoders", O.Litany, A.Bronstein, M.Bronstein, A.Makadia, Computer Vision and Pattern Recognition (CVPR), 2018.
66. "Partial Single-and Multishape Dense Correspondence Using Functional Maps", O.Litany, E.Rodolà, A.Bronstein, M.Bronstein, D.Cremers, Handbook of Numerical Analysis, Elsevier, 2018.
67. "Class-Aware Fully Convolutional Gaussian and Poisson Denoising", T.Remez, O.Litany, R.Giryes, A.Bronstein, IEEE Transactions on Image Processing, 2018.
68. "Efficient Deformable Shape Correspondence via Kernel Matching", Z.Lähner, M.Vestner, A.Boyarski, O.Litany, R.Slossberg, T.Remez, E.Rodolà, A.Bronstein, M.Bronstein, R.Kimmel, D.Cremers, Intl. Conference on 3D Vision (3DV), 2017.
69. "Deep Functional Maps: Structured Prediction for Dense Shape Correspondence", O.Litany, T.Remez, E.Rodolà, A.Bronstein, M.Bronstein, ICCV, 2017.
70. "Deep Class-Aware Image Denoising", T.Remez, O.Litany, R.Giryes, A.Bronstein, IEEE International Conference on Image Processing (ICIP), 2017.
71. "Cloud Dictionary: Sparse Coding and Modeling for Point Clouds", O.Litany*, T.Remez*, A.Bronstein, Signal Processing with Adaptive Sparse Structured Representations (SPARS), 2017.
72. "Fully Spectral Partial Shape Matching", O.Litany, E.Rodolà, A.Bronstein, M.Bronstein, Computer Graphics Forum, Vol. 36(2), 2017 Presented at Eurographics, 2017.
73. "SHREC'17: Deformable Shape Retrieval with Missing Parts", E.Rodolà, L.Cosmo, O.Litany, M.Bronstein, A.Bronstein, et al., EUROGRAPHICS Workshop on 3D Object Retrieval (3DOR), 2017.
74. "ASIST: Automatic Semantically Invariant Scene Transformation", O.Litany, T.Remez, D.Freedman, L.Shapira, A.Bronstein, R.Gal, Computer Vision and Image Understanding (CVIU), 2017.
75. "Non-Rigid Puzzles", O.Litany, E.Rodolà, A.Bronstein, M.Bronstein, D.Cremers, Computer Graphics Forum, Wiley, volume 35, 2016 SGP Best Paper Award.
76. "A picture is worth a billion bits: Real-time image reconstruction from dense binary threshold pixels", T.Remez*, O.Litany*, A.Bronstein, International Conference on Computational Photography (ICCP), 2016.
77. "Image reconstruction from dense binary pixels", O.Litany*, T.Remez*, A.Bronstein, Signal Processing with Adaptive Sparse Structured Representations (SPARS), 2015.
78. "Putting the Pieces Together: Regularized Multi-part Shape Matching", O.Litany, A.Bronstein, M.Bronstein, Workshop on Nonrigid Shape Analysis and Deformable Image Alignment (NORDIA), 2012.

Preprints

1. "ReLift: Dense 3D Tracking as Lifted Trajectory Repair", A.Singer, M.Khriesh, N.Rotstein, Y.Kasten, O.Litany, Preprint.
2. "Joints, Camera, Action! Co-Generating 3D Motion and Video for Arbitrary Rigs", N.Rotstein, Y.Tewel, C.Tessler, H.Maron, G.Chechik, O.Litany, Y.Kasten, Y.Atzmon, Preprint.
3. "DyRAD: Radar Novel View Synthesis for Dynamic Driving Scenes", M.Keidar, T.Borreda, R.Nandakumar, O.Litany, Preprint.
4. "WarpHammer: Densifying Scene Warps with 3D Object Priors for Extreme View Synthesis", M.Green, G.Habib, D.Samuel, T.Berkovitz-Shalev, I.Tzachor, R.Ben-Ari, O.Litany, Preprint.
5. "FlowBender: Feedback-Aware Training for Self-Correcting Conditional Flows", D.Gilo, S.Elflein, I.Sobol, O.Litany, Preprint.
6. "SceneTeract: Agentic Functional Affordances and VLM Grounding in 3D Scenes", L.Maillard, F.Engelmann, T.Durand, B.Pan, Y.You, O.Litany, L.Guibas, M.Ovsjanikov, Preprint.
7. "GAS-NeRF: Geometry-Aware Stylization of Dynamic Radiance Fields", N.Vu, A.Saroha, O.Litany, D.Cremers, Preprint.
8. "ZDySS – Zero-Shot Dynamic Scene Stylization using Gaussian Splatting", A.Saroha, F.Hofherr, M.Gladkova, C.Curreli, O.Litany, D.Cremers, Preprint.
9. "Federated Learning with Heterogeneous Architectures using Graph HyperNetworks", O.Litany, H.Maron, D.Acuna, J.Kautz, G.Chechik, S.Fidler, Preprint.
10. "StrobeNet: Category-Level Multiview Reconstruction of Articulated Objects", G.Zhang, O.Litany, S.Sridhar, L.Guibas, Preprint.
11. "Human 3D keypoints via spatial uncertainty modeling", F.Williams, O.Litany, A.Sud, K.Swersky, A.Tagliasacchi, Preprint.
12. "Object-Centric Multi-View Aggregation", S.Tulsiani, O.Litany, C.Qi, H.Wang, L.Guibas, Preprint.
13. "FPGA system for real-time computational extended depth of field imaging using phase aperture coding", T.Remez, O.Litany, S.Yoseff, H.Haim, A.Bronstein, Preprint.

Advising

PhD Students

- Tomer Borreda, 2026 – Present
- Daniel Gilo, 2024 – Present
- Gal Harari, 2024 – Present
- Assaf Singer, 2024 – Present
- Ido Sobol, 2025 – Present

MSc Students

- Ido Raizman, 2026 – Present
- Maroun Khriesh, 2026 – Present
- Michael Shlizerman, 2026 – Present
- Amir Mann, 2025 – Present
- Nitzan Leshem, 2025 – Present
- Merav Keidar, 2025 – Present
- Roi Teichman (Joint advising with Prof. Oren Salzman), 2025 – Present
- Tomer Borreda, Graduated 2026
- Guy Levavi (Joint advising with Prof. Assaf Marom), Graduated 2024
- Yarin Bekor, Graduated 2025
- Saar Stern, Graduated 2025

Postdoc

- Matan Levy (Joint advising with Prof. Hadar Elor), 2026 – Present
- Fangqiang Ding, Graduated 2025 (Next: Postdoc at MIT)

Interns

- Etai Sella, 2026 – Present
- Junchen Liu, Graduated 2026

- Noam Rotstein, Graduated 2026
- Chenfeng Xu, Graduated 2023 (Next: Assistant professor at UT Austin)
- Davis Rempe, Graduated 2023 (Next: Research Scientist at Nvidia)
- Shengyu Huang, Graduated 2023 (Next: Research Scientist at Nvidia)
- Zan Gojcic, Graduated 2022 (Next: Sr. Research Manager at Nvidia)
- Francis Williams, Graduated 2022 (Next: Sr. Research Scientist at Nvidia)
- Derek Liu, Graduated 2022 (Next: Sr. Research Scientist at Roblox and an Adjunct Professor at UBC)
- Tzofi Klinghoffer, Graduated 2023 (Next: PhD at MIT Media Lab)
- Ge Zhang (Summer intern at Stanford University), Graduated 2021 (Next: Software Engineer at Righthand Robotics)
- Cinjon Resnick, Graduated 2021 (Next: Research Scientist at Sesame)

Selected Professional Service

- Program Chair (PC) for 3DV 2027
- Doctoral Consortium Chair at ECCV 2024-2026.
- Research Interaction Chair at 3DV 2024-2025.
- Area Chair: ECCV 2024-2026, CVPR 2025-2026, ICCV 2025, 3DV 2022-2026.
- Workshop / tutorial organizer:
  - "Open-Vocabulary 3D Scene Understanding" 6th workshop at CVPR, 2026.
  - "Open-Vocabulary 3D Scene Understanding" 5th workshop at ICCV, 2025.
  - "Open-Vocabulary 3D Scene Understanding" 4th workshop at CVPR, 2025.
  - "Neural Fields Beyond Conventional Cameras" 2nd workshop at CVPR, 2025.
  - "Neural Fields Beyond Conventional Cameras" workshop at ECCV, 2024.
  - "Open-Vocabulary 3D Scene Understanding" 3rd workshop at ECCV, 2024.
  - "Open-Vocabulary 3D Scene Understanding" 2nd workshop at CVPR, 2024.
  - "Data-Driven Autonomous Driving Simulation" workshop at CVPR, 2024.
  - "Neural Fields for Visual Computing" workshop at CVPR, 2024.
  - "Neural Fields for Visual Computing" Course at SIGGRAPH, 2023.
  - "3DOVScene: Open-Vocabulary 3D Scene Understanding" workshop at ICCV, 2023.
  - "Neural Fields in Computer Vision" workshop at CVPR, 2022.
  - "Learning 3D Representations for Shape and Appearance" workshop at ICCV, 2021.
  - "iGDL: Israeli Geometric Deep Learning workshop (First)" workshop, 2020.
  - "iGDL: Israeli Geometric Deep Learning workshop (Second)" workshop, 2021.
  - "Learning 3D Representations for Shape and Appearance" workshop at ECCV, 2020.
  - "Deep Learning for Computer Graphics and Geometry Processing" tutorial at Eurographics, 2019.
  - "Deep Learning meets Geometry" tutorial at ECCV, 2018.
  - "Deep Learning and Geometry" workshop at EUSIPCO, 2017.
- Mentor at the Doctoral Consortium: CVPR 2020, CVPR 2022, ICCV 2023, ECCV 2026.
- Reviewer at:
  Grants: Swiss National Science Foundation (SNSF), Israel Science Foundation (ISF), Israel National AI Research Computing Center (AIRCC); **2016**: ECCV; **2017**: 3DV, CVPR; **2018**: CVPR, TPAMI, Pattern Recognition, ICASSP, ECCV, 3DV, Transactions on Graphics (TOG), NIPS, SIGGRAPH ASIA, GMDL workshop; **2019**: Eurographics, CVPR, IEEE Robotics and Automation Letters, Computer Vision for Global Challenges Workshop at CVPR, GMDL workshop at ICCV, 3DRW workshop at ICCV, TPAMI, Transactions on Image Processing, AAAI, ICLR (emergency); **2020**: CVPR, Siggraph, NeurIPS, CAG journal (Elsevier), Journal of Imaging, 3DOR, IEEE TVCG, PAMI. **2021**: CVPR, WACV, ICCV, NeurIPS, TPAMI, IEEE Robotics

and Automation Letters. **2022**: SIGGRAPH, CVPR, TMLR, 3DV, NeurIPS. **2023**: CVPR, WAD workshop, SIGGRAPH, ICCV, OpenSUN3D workshop. **2024**: ICLR, CVPR, NeurIPS, SIGGRAPH. **2025**: NeurIPS, ICLR, ICML, SIGGRAPH-ASIA **2026**: ICLR, ICML, NeurIPS, Siggraph-Asia.

- Thesis Examiner: Harel Yedid, MSc (Technion), Ron Rephaeli, MSc (Technion); Liav Hen, MSc (TAU); Etai Sella, MSc (TAU); Yarin Bar, MSc (Technion); Yanai Soker, MSc (Technion); Shengyu Huang, PhD (ETH Zurich); Marco Fumero, PhD (University of Rome); Maxim Maximov, PhD (TUM), Evin Pınar Ornek, PhD (TUM); Edan Kinderman, MSc (Technion); Saar Tsour, MSc (Technion); Itay Segev, MSc (Technion); Gilad Nurko, MSc (Technion); Itshak Blau, PhD (Technion);

Invited Talks

1. June 3, 2026. Keynote at CVPR workshop on ScanNet++: Link.
2. Jan 21, 2026. Bosch Research.
3. Dec 30, 2025. Amazon Research.
4. Nov 23, 2025. Bar Ilan University's Learning Club Seminar.
5. August 4, 2025. Stanford University. Invited by Prof. Leonidas Guibas.
6. April 23, 2025. Tel-Aviv University. Invited by Prof. Ishay Mansour.
7. Nov 28, 2024. Weizmann Computer Vision and AI seminar.
8. Sep 29, 2024. Keynote at Sun3D workshop at ECCV.
9. May 30, 2024. Bar Ilan University CS Colloquium. Invited by Prof. Ely Porat.
10. May 28, 2024. New-tech exhibition: AI, MACHINE LEARNING & MACHINE VISION track.
11. April 10, 2024. TUM, Germany. Invited by Prof. Daniel Cremers.
12. March 28, 2024. University of Illinois, Urbana-Champaign – vision seminar. Invited by Prof. Shenglong Wang.
13. March 26, 2024. Tel-Aviv University EE Seminar. Invited by Prof. Hadar Elor
14. 3.15.24 ETH, Switzerland. Invited by Prof. Konrad Schindler.
15. IMVC Autonomous Systems & Robotic Vision
16. ICCV 2023 Workshop on Language for 3D Scenes - Keynote.
17. 5.24.23 Singapore Vision Day – Keynote.
18. 4.28.23 Brown Visual Computing Seminar
19. Data-driven Simulation for AV, ECCV 2022 workshop on 3D Perception for Autonomous Driving. Tel-Aviv, Israel. Invited by Prof. Gal Chechik and Raja Giryes.
20. 9.30.21 Research presentation at Nvidia's NTECH conference.
21. 9.29.21 Reduced supervision for 3D scene understanding. SIAM Conference on Geometric and Physical Modeling (GD/SPM21). Invited by Prof. Qixing Huang.
22. 6.2.21 Deep Learning on graphs and manifolds. Guest speaker at Stanford course CS233.
23. Nvidia GTC 2021
24. 12.14.20 Hebrew University of Jerusalem (HUJI). Invited by Prof. Raanan Fattal.
25. 12.8.20 Tel-Aviv CS. Invited by Prof. Sivan Toledo.
26. 12.1.20 Technion Pixel-Club. Invited by Prof. Ron Kimmel.
27. 11.30.20 Tel-Aviv EE. Invited by Prof. Shai Avidan.
28. 10.16.20 UT Austin's Forum for Artificial Intelligence (FAI) seminar. Invited by Prof. Qixing Huang.
29. 9.9.20 Google Cambridge. Invited by Prof. Bill Freeman.
30. 8.2.20 Talk at iGDL
31. 7.29.20 Talk at Google. Invited by Prof. Thomas Funkhouser.
32. 7.8.20 SIAM 20: Learning and Processing of Geometric Visual Structures. Invited by Prof. Ron Kimmel.
33. 1.7.20 Talk at Amazon. Invited by Dr. Roee Litman.
34. 9.1.20. Stanford Graphics-Cafe.
35. 19.12.19. Talk at Nvidia Research, Toronto. Invited by Prof. Sanja Fidler
36. 21.11.19. Talk at Apple. Invited by Dr. Oncel Tunzel
37. 19.7.19. Invited speaker at the, "Deep Learning for Science School" at Berkeley.
38. 17.4.2019. Cornell Tech University. Invited by Prof. Noah Snavely.

39. 16.4.2019. New York University (NYU). Invited by Prof. Daniele Panozzo and Prof. Juan Bruna.
40. 10.4.2019. Palo Alto Research Center (Xerox PARC). Invited by Kalai Ramea.
41. 31.1.2019. "San Francisco Deep Learning Meetup", San Francisco, CA, USA.
42. 4.7.2018. "TUM IAS Workshop on Machine Learning for 3D Understanding", TU Munich, Germany.
43. 15.3.2018. "Imaging and Vision from Theory to Applications" workshop, Siegen, Germany. Invited by Prof. Michael Muller.
44. 26.1.2018. Stanford University. Invited by Prof. Leonidas Guibas.
45. 27.09.2017. New York University (NYU). Invited by Prof. Juan Bruna.
46. 13.09.2017. Google New York.
47. 26.06.2017. Invited speaker at Israel computer vision MeetUp. Google campus Tel-Aviv.
48. 13.01.2017. Invited speaker at the Dagstuhl Seminar 17021 "Functoriality in Geometric Data". Schloss Dagstuhl, Leibniz Center for Informatics (Germany).
49. 25.12.2016. Invited speaker at the Israeli Computer Vision Day. IDC Herzliya (Israel).
50. 24.11.2016. Weizmann Insitute of Science (Israel). Invited by Prof. Y. Lipman.
51. 22.11.2016. Tel Aviv University (Israel). Invited by Prof. D. Cohen-Or.
52. 27.10.2016. Invited speaker at the G-Caffe Seminar, Stanford University. Invited by Prof. L. Guibas.
53. 21.06.2016. Eurographics Symposium on Geometry Processing (SGP), FU Berlin (Germany). Invited by Prof. M. Ovsjanikov and Prof. D. Panozzo.
54. 5.6.2016. The Hebrew University of Jerusalem (Israel). Invited by Prof. Shmuel Peleg.
55. 15.4.2016. Technische Universität München (Germany). Invited by Prof. D. Cremers.
56. 12.4.2016. USI University of Lugano (Switzerland). Invited by Prof. M. Brsontein.
57. 30.11.2015. Ben Gurion University (Israel). Invited by Prof. O. Ben-Shahar.