

MATAN SUDRY | RESUME



- › **Industry:** Senior Computer Vision DL Researcher at Trigo Vision
- › **Academic:** Ph.D. in Robotics and Autonomous Systems (In progress)
- › **Expertise:** Computer vision, Reinforcement learning and Automated planning
- › **Email:** matansudry@gmail.com
- › **Phone:** 0546-988378

»»» Experience

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| 2025 - Now | Senior Computer Vision DL Researcher | Trigo vision |
| | <ul style="list-style-type: none">› Developed and deployed novel, customer-centric computer vision pipelines to production, surpassing existing literature benchmarks in a rapid startup environment› Developed a zero-shot object recognition pipeline utilizing CLIP-based metric learning. Engineered a shared embedding space to align multi-modal features, enabling zero-shot classification of novel object categories without task-specific fine-tuning | |
| 2024 - 2025 | Team Lead - Semantic Detection (Maternity Cover) | General Motors |
| | <ul style="list-style-type: none">› Led a team of 10 algorithm engineers in developing 2D/3D parking slot and lane detectors, overseeing the full lifecycle from research to production-ready deployment› Led a Data Mining hackathon across all Advanced Driver Assistance Systems (ADAS), delivering a tutorial on foundation models, building infrastructure to scale algorithms on big data, and advising participating teams. | |
| 2023 - 2024 | Tech Lead - Offline Computer Vision Algorithms | General Motors |
| | <ul style="list-style-type: none">› Built a roadmap aligned with technical requirements and strategic goals› Worked on a NeRF-based scene reconstruction Algorithm to synthesize data from novel views, improving cross-program algorithm generalization› Developed a Diffusion-based generative model for sim-to-real data translation, including infrastructure for DDP training, integration with state-of-the-art models, and large-scale data pipelines for training and delivering end-to-end data for detectors | |
| 2020 - 2023 | Senior Computer Vision Algorithm Developer | General Motors |
| | <ul style="list-style-type: none">› Development of deep learning and machine learning algorithms› Owning complete feature cycle, from research implementation | |
| 2017 - 2020 | CM Procurement Manager - NPI | Nvidia/Mellanox |
| | <ul style="list-style-type: none">› Operative management of NPI projects from design stage to mass production | |
| 2016 - 2017 | Contract Manager | Rafael |
| | <ul style="list-style-type: none">› Led strategic outsourcing procurement projects, managing end-to-end supplier selection, contract negotiations, and vendor performance | |

»»» Education

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| 2021 - Now | P.hD student - Robotics and Autonomous Systems, GPA: 92 | Technion - Israel
Institute of Technology |
| | <ul style="list-style-type: none">› Research field - Robot learning for manipulation/Reinforcement learning [1]-[4]› Advisors: Prof Erez Karpas and Prof Aviv Tamar | |

2017 - 2021

M.Sc Data Science, GPA: 89

Technion - Israel
Institute of Technology

- » Master Thesis: Learning to Estimate Search Progress Using Sequence of States [5]
- » Advisor: Prof Erez Karpas

2013 - 2017

B.Sc Industrial Engineering, GPA: 92.06

ORT Braude College of
Engineering

- » Development of a methodology for embedding several types of patients in a stochastic

»»» Publications

- [1] G. Freund, T. Jurgenson, M. Sudry, and E. Karpas, "Twisted-rl: Hierarchical skilled agents for knot-tying without human demonstrations," *arXiv preprint arXiv:2602.14526*, 2026.
- [2] M. Sudry, T. Jurgenson, and E. Karpas, "Task and motion planning using infinite completion tree and agnostic skills," in *Proceedings of the International Symposium on Combinatorial Search*, vol. 18, 2025, pp. 154–161.
- [3] T. Jurgenson, M. Sudry, G. Avineri, and A. Tamar, "Roboarm-nmp: A learning environment for neural motion planning," *arXiv preprint arXiv:2405.16335*, 2024.
- [4] M. Sudry, T. Jurgenson, A. Tamar, and E. Karpas, "Hierarchical planning for rope manipulation using knot theory and a learned inverse model," in *7th Annual Conference on Robot Learning*, 2023.
- [5] M. Sudry and E. Karpas, "Learning to estimate search progress using sequence of states," in *Proceedings of the International Conference on Automated Planning and Scheduling*, vol. 32, 2022, pp. 362–370.