Ori Fogler *Algorithms and AI Researcher with 4 years’ experience in R&D*

## EXPERIENCE

### Ofek 324 Unit AI Sector (2020 - 2023) *- Algorithms Researcher*

Formulating and developing solutions for real-world problems of the IAF by algorithmic tools as graph theory, optimization techniques and machine learning models.

* Aerial navigation systems (“Waze”) - multi objective path finding/TSP on random graphs.

Responsible for tutoring new team-members, leading projects and managing relations with users.  
Collaborated effectively with cross-functional teams to deliver high-quality software solutions.

### Bar-Ilan University (2022 - 2023) *- Researcher in the* [*SMART Robotics lab*](https://u.cs.biu.ac.il/~agmon/index.html)

Academic algorithmic research for planning problems of robots in challenging environments.

### Bar-Ilan University (2019) *- Research Assistant in the* [*BIU Cyber Center*](https://cyber.biu.ac.il/)

## EDUCATION

### Bar-Ilan University (2023) *- Ph.D. Candidate Computer Science*

* Weight Constrained Shortest Path with k-Circular Budget-zones.

### Bar-Ilan University (2021 - 2022) *- M.Sc. Computer Science in spec. of AI (grade: 97)*

* Thesis: [Multi-Robot Dynamic Swarm Disablement](https://u.cs.biu.ac.il/~agmon/FoglerIROS22.pdf), published in The 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2022).
* Presenting in [Autonomous Robot and Multi-Robots Systems Workshop](https://u.cs.biu.ac.il/~agmon/arms2022/program.html) (ARMS 2022).

Courses: Deep Learning, Robotics, NLP, Reinforcement Learning, Networks Security and Privacy.

### Bar-Ilan University (2017 - 2020) *- B.Sc. Computer Science (grade: 96.5, ranked 1#)*

* Project: [HumanizingZeroHex](https://www.youtube.com/watch?v=arA5WKuZw2M) - Retraining a well-trained Deep RL model (“AlphaZero”) that plays Hex, to lower its performance to the level of human players (“The Imitation Game”).

## SKILLS

### Programming Languages and Technologies

Experienced Python Developer. Familiar also with JS, Java, C{#,++, }, Asm, SQL and Go.

Familiar with tools of code management and CI/CD (Git, Bitbucket, Jira, OpenShift, Splunk).

### Languages: Hebrew (native) and English (fluent).

## AWARDS

* Finished B.Sc. and M.Sc. in Summa Cum laude, ranked first among B.Sc. graduates.
* Special certificates for a unique contribution to smart systems in the Air Force.
* Partnership in an IAF and IDF awards-winning project of route multi-objective planning.
* Winning IBM-Hackathon with the app ["I'm Fine"](https://www.facebook.com/cs.biu/posts/2740382685971844).
* BIU - [Ilanot scholarship](https://life-sciences.biu.ac.il/node/10015#:~:text=%D7%AA%D7%95%D7%9B%D7%A0%D7%99%D7%AA%20%22%D7%90%D7%99%D7%9C%D7%A0%D7%95%D7%AA%22%20%D7%9C%D7%9E%D7%A6%D7%98%D7%99%D7%99%D7%A0%D7%95%D7%AA%20%D7%95%D7%9C%D7%9E%D7%A6%D7%98%D7%99%D7%99%D7%A0%D7%99%D7%9D%20%D7%9C%D7%AA%D7%95%D7%90%D7%A8,%D7%9C%D7%91%D7%A2%D7%9C%D7%99%20%D7%A8%D7%9B%D7%91%20%D7%94%D7%A8%D7%A9%D7%95%D7%9D%20%D7%A2%D7%9C%20%D7%A9%D7%9E%D7%9D).) for 110+ Bagrut and 740+ PET candidates.
* Dean’s list - top faculty students. CS Department scholarship for top 10 students.