

## **RESUME**

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## **ACADEMIC DEGREES**

Ph.D. 2021, Faculty of Civil and Environmental Engineering, Technion, Direct course (ongoing)  
B.Sc. 2013, Faculty of Civil and Environmental Engineering, Technion, Final grade: 88, Cum Laude

## **PROFESSIONAL EXPERIENCE**

2021-Today Hydroinformatics Engineer, Xylem Inc  
2018-2021 Modeling Engineer, Mekorot – Israel National Water Company  
2017-2018 Data Analyst, BiMarket – Construction management AI startup (closed)  
2013-2017 Water Supply Engineer and Project Manager, Ecolog Engineering Ltd.

## **PUBLICATIONS**

### **Refereed papers in professional journals**

- 1) Perelman, G., Fishbain, B. Critical Elements Analysis of Water Supply Systems to Improve Energy Efficiency in Failure Scenarios. Water Resour Manage (2022).  
<https://doi.org/10.1007/s11269-022-03232-y>
- 2) Perelman, G., Xing, L., Housh M., Kandiah V., Fishbain B., Shafiee E. Optimizing the Performance of Water Distribution System Under Intermittent Supply Conditions Using a Heuristic Technique – Presented at WDSA-CCWI 2022 Conference
- 3) Perelman, G., Fishbain, B., 2022. Synthesizing water-related time series for simulation studies while maintaining the original signal's statistical moments, in: EGU General Assembly. <https://doi.org/10.5194/egusphere-egu22-8805>
- 4) Levinas, D., Perelman, G., Ostfeld, A., 2021. Water leak localization using high-resolution pressure sensors. Water (Switzerland) 13, 1–12. <https://doi.org/10.3390/W13050591>
- 5) Perelman, G., Ostfeld, A., 2021. Optimal Wellfield Operation under Water Quality Constraints. J. Water Resources Planning and Management 147, 1–14.  
[https://doi.org/10.1061/\(asce\)wr.1943-5452.0001391](https://doi.org/10.1061/(asce)wr.1943-5452.0001391)

**SPECIAL ACTIVITIES**

Engineers Without Borders – Water access to communities in developing countries

Contributor to the hydraulic modeling open-source software community (EPANET)

**RESEARCH INTERESTS**

My research focuses on optimization and decision making in water resources and particularly water supply systems. Currently I'm working on my Ph.D. entitled "Optimal Operation of Water Supply Systems Under Uncertainty Conditions". My research goal is to adopt recent development in optimization theory into water supply systems operation.