<u>RESUME</u>

Full name:	Gal Perelman
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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

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.

TEACHING EXPERIENCE

Statistics (undergraduate) – Teaching assistant

Systems Analysis (undergraduate) - Teaching assistant

Water Distribution Systems Design (undergraduate) - Teaching assistant

AWARDS AND HONORS

2023	Civil and Envirinment Engineering Facoulty Outstanding scholarship
2022-2023	Climate scholarship KKL-JNF
2022	4 th place at The Battle Of Intermittent Water Supply (WDSA-CCWI 2022)

PUBLIC PROFESSIONAL ACTIVITIES

Reviewer of journals: Water Resource Planning and Management,

Water Resources Management,

Water Resources Research

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

Engineers Without Borders - Water access to communities in developing countries

RESEARCH INTERESTS

My research focuses on optimization and decision making in water resources and particularly water distribution systems. Currently, I'm working on my Ph.D. entitled "Optimal Operation of Water Distribution Systems Under Uncertainty". My research goal is to adopt state of the art development in data science and optimization theory to cope with the major challenges facing the management of water and energy systems.

PUBLICATIONS

Refereed papers in professional journals

- 1) Perelman, G., Ostfeld A., Fishbain, B. (2023) Robust Optimal Operation of Water Distribution Systems. Water 15, 5, 963. <u>https://doi.org/10.3390/w15050963</u>
- Perelman, G., Fishbain, B. (2022) Critical Elements Analysis of Water Supply Systems to Improve Energy Efficiency in Failure Scenarios. Water Resour Manage 36, 3797–3811. <u>https://doi.org/10.1007/s11269-022-03232-y</u>
- 3) Levinas, D., Perelman, G., Ostfeld, A. (2021) Water leak localization using high-resolution pressure sensors. Water 13, 5, 591. <u>https://doi.org/10.3390/W13050591</u>
- 4) Perelman, G., Ostfeld, A. (2021). Optimal Wellfield Operation under Water Quality Constraints. Journal of Water Resources Planning and Management 147, 1–14. https://doi.org/10.1061/(asce)wr.1943-5452.0001391

Papers in refereed conference proceedings

 Perelman, G., Xing, L., Housh M., Kandiah V., Fishbain B., Shafiee E. (2022). Optimizing the Performance of Water Distribution System Under Intermittent Supply Conditions Using a Heuristic Technique. WDSA-CCWI Joint Conference, Valencia, Spain, 18-22 July 2022.

https://drive.google.com/file/d/1dfyFAkD9GkfXQ8t6roZbo9tREmUtzNN6/view

- Perelman G. and Ostfeld A. (2023). "What's next in water distribution systems management?" EWRI Conference, Henderson Nevada, May 21-24 USA. <u>https://ascelibrary.org/doi/abs/10.1061/9780784484852.098</u>
- Perelman G. and Ostfeld A. (2023). "Optimal operation of water distribution systems under uncertainty." EWRI Conference, Henderson Nevada, May 21-24 USA. <u>https://ascelibrary.org/doi/abs/10.1061/9780784484852.089</u>

Conference presentations – Abstract only

 Perelman, G., Fishbain, B. (2022). Synthesizing water-related time series for simulation studies while maintaining the original signal's statistical moments. EGU General Assembly, Vienna, Austria 23-27 May 2022. <u>https://doi.org/10.5194/egusphere-egu22-8805</u>