Asaf Pras

Water Data Researcher

EXECUTIVE SUMMARY

I am a researcher with four years of experience in data science. I focus on developing ML and AI models to understand quicker and better the quality of waters.

RESEARCH INTERESTS

- Nowcasting water quality parameters with in-situ measurable parameters.
- Nowcasting sewage ponds' quality for irrigation purposes via satellite imagery.
- Geospatial analysis of water quality data in low-income communities.

CONTACT DETAILS

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PROFESSIONAL CAREER

Chief Technology Officer

DataPond | July 2022-present

Managing and leading the R&D of real-time, in-situ, and affordable water quality AI-based sensors, from the ideation, leading the data science and the product development, and to the lab and field experiments and pilots.

Sensor Engineer

SoLED | May 2021-May 2022

Leading the development of an array of sensors for water disinfection systems, starting from the planning stage through dealing with suppliers to assembly.

EDUCATION

Tel-Aviv University

Ph.D. candidate in the direct program in Environmental engineering | 2022-Present

Research topic: "Nowcasting water quality parameters using artificial intelligence"

Tel-Aviv University

Direct program to an M.Sc. in Environmental Engineering | 2020-2022

Grade: 92.00
Research topic: "Nowcasting water quality parameters using artificial intelligence"

PUBLICATIONS

- **Pras, A.**, Mamane, H. (2023) FeCo-RisC: Predicting Fecal Coliforms Risk Categories (under development).
- **Pras, A.**, & Mamane, H. (2023). Nowcasting of fecal coliform presence using an artificial neural network. Environmental Pollution, 326, 121484. **IF (2023): 8.9, Q1**
- Moore N., Pousty, D., **Pras, A.**, Gehr, R.E., Wong, K., Ma, D., Linden G.K., Hofmann, R., Mamane, H., (2023) Decentralized UV Disinfection Systems in Rural Areas or Low-Resource Contexts: A Case Study Compilation. Technology in Society (under review). IF (2023): 9.2, Q1
- Ramesh R., Frank E., Padmavilochanan A., Barda Y., Eldar I., Wolf H., **Pras A**. et al. (2023). Reliable Water Quality Monitoring by Women in Low Resource Communities. Water Research (under review). **IF (2023): 12.8, Q1**
- Ajith Vineeth, Ram Fishman, Eitan Yosef, Selda Edris, Reshma Ramesh, Reshma Alookaran Suresh, **Asaf Pras** et al. (2023). An integrated methodology for assessment of drinking-water quality in low-income settings. Environmental Development, 100862. **IF (2023): 5.4, Q2-** Mamane, **Pras**. 2022. System and Method for Nowcasting Fecal Coliform Presence using an Artificial Neural Network. U.S. patent 46269406, filled July 26, 2022. Provisional patent.