

Kostas Eftaxias

Senior Wastewater Modeller

Manchester, United Kingdom
+44 744 5035 645
eftaxiaskostas@gmail.com
<https://www.linkedin.com/in/eftaxiaskostas/>

Skills

1D / 2D Network Modelling / Model Build and Verification / Flow Survey Scoping, Management and Data Assessment / Flood Risk Assessment,
Flood Risk Heat Mapping, Final Design Modelling, Model updates,
Optioneering, Solution Providing / Nature Based Solutions Modelling, Automations

Professional Experience

Arup • Senior Wastewater Modeller (Contract)

APRIL 2026 – Present, MANCHESTER (UNITED KINGDOM)

Arcadis • Principal Wastewater Modeller (Contract)

MAY 2025 – APRIL 2026, MANCHESTER (UNITED KINGDOM)

- Southwest Water Storm Overflows Program
 - Modelling Lead of Plymouth Flow Survey Scoping and Management, Model Build and Verification (206 monitors). *Automation of Interim Data Assessment using Python*
 - Heathfield STW Modelling of Primary Treatment Works Stream
 - Exmouth Model Build, Verification and Optioneering
 - Dittisham Optioneering
- Thames Water Development Services Support
 - Modelling Lead for 18 Modelling Projects including: Model Build and Verification, Model Calibration, Flow Survey Scoping and Control, Model Updates, Detriment Analysis, Optioneering

Stantec • Senior Wastewater Network Modeller

JUNE 2024 – MAY 2025, WARRINGTON (UNITED KINGDOM)

- United Utilities
 - Davyhulme Strategic Study: Modelling Lead of 250 monitors flow survey. Model Build and Verification. 5 weeks of site visits to assist installation
 - AMP8 CSOs and Better Rivers Program: Tintwistle & Middleton (Davyhulme) Asset Surveys, Model Updates and Model Calibration.

Arup • Urban Drainage Modeller

APRIL 2022 - JUNE 2024, MANCHESTER (UNITED KINGDOM)

- DCWW (Welsh Water) AMP7 Framework
 - Denbigh TEN Scheme: Modelling Lead of Model Build, Verification and Optioneering
 - Bangor Beach Road Shellfish: Detriment Analysis, Optioneering and Design Modelling
 - Treborth WTW Optioneering: Optioneering, Nature Based Solution Modelling (Reedbed)
 - Chester Catchment: Model Verification and Strategic Optioneering
 - FHO studies (Jacksons Bay, Bretton)

Stantec • Wastewater Network Modeller

JULY 2016 - APRIL 2022, WARRINGTON (UNITED KINGDOM)

- United Utilities AMP7 Water Quality Conversions
 - Model conversions and WQ model updates
 - WQ Model Calibration against measured data
 - United Utilities SOAF / Bathing Waters
 - EDM vs Model Spills comparison and Spills assessment
 - Surface Water Separation Assessment
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- CSO Performance Assessment

- Scottish Water Flood Risk Heat Maps Phase 2
 - Flood Risk Assessment, based on the water level in a sewer relative to a property and/or cellar level and on the water depth on the ground at properties.
 - Joint probability assessment for ICS catchments, for combination of Urban and River worst case return periods. *Automation of assessment and heatmaps producing using FME*
- Southern Water AMP6 DAP and PR19
 - Wateringbury and Sittingbourne Catchments: Model build and Verification.
 - Needs assessment, Solution providing, Optioneering
 - Model updates, Future design horizon updates
 - Flow survey scoping, on site visits on installation
- United Utilities 2020 Model Updates
 - Historical rainfall manipulation

I have been the ICM Representative of Warrington office in the ICM Europe & India ICM Group from December 2016 to April 2022. The role included the communication and feedback between all the offices in the area and ICM users in the office, troubleshooting on ICM issues, managing the demand of simulations and distribution on the available resources (Simulation Servers) and maintaining the ICM environment.

C.S. Consultants • Civil Engineer | Urban Drainage Modeller

OCTOBER 2015 - JULY 2016, ATHENS (GREECE)

- Kareas - Ilioupoli storm network final design (2015 - 2016)
 - Detail design of storm water network.
 - Catchment hydrological calculations (Giandotti and Kiprich methods)
 - Hydrological / Hydraulic calculations, Model Build and Optioneering
- Stalida river flooding zone assessment (2015 - 2016)
 - Hydrological study, river catchment calculations
 - River Flood Zones Analysis
 - Model Build & Optioneering
- Agrinio's rivers arrangement and drainage system design (2016)
 - Catchment hydrological calculations
 - Rainfall calculations using Rainfall Hydrograph
 - Model build, Hydraulic calculations and Optioneering.

Bardakis Ioannis & Co. • Graduate Civil Engineer

OCTOBER 2014 - JUNE 2015, ATHENS (GREECE)

- Traffic volume assessment for "Ionia Odos" highway
 - Managing a team of 14 people in two remote cities of Greece (Agrinio and Ioannina) that were undertaking traffic volume measurements for "Ionia Odos" (highway maintenance company).
 - Site visit for equipment installation and training the team members
 - Collecting data from all the 14 surveyors and managing their swifts
- "Drama - Paranesti" railroad survey and mapping
- Urban survey and mapping in Ano Voula, Athens (area of 3.6km²)

Hellenic Ministry for the Environment and Public Works

University Summer Placement as Trainee Civil Engineer

JULY - AUGUST 2005 and 2006, ATHENS (GREECE)

During my studies, I took two 2-month placements in the Hellenic Ministry of Environment, Planning and Public Works. During these placements, I got familiar with several kinds of studies. The studies were mainly Road Works construction preliminary studies and Road Work Environmental Impact studies.

Software specialisation

Engineering software

ICM InfoWorks v2026, MapInfo, ArcGIS, qGIS, Global Mapper,
FME Data Analysis, PowerBI, AutoCAD, EPANet, EPA SWMM 5.0, DHI Mike
FeFlow, HEC-RAS, HEC-HMS

Scripting • Coding

Python, Ruby, Visual Basic 6.0, Excel Macros scripting, Fortran

Office suites • General computer knowledge

Microsoft Office Suite (Word, Excel, Power Point, Access, Outlook, Project, Teams), Windows, Linux
OS, LLM user (Chat GPT & Claude)

Education

National Technical University of Athens

MEng in Water Resources and Environmental Engineering

BSc in Civil Engineering

OCTOBER 2004 - FEBRUARY 2014, ATHENS (GREECE)

- **GPA:** 6.71 / 10.00
- **Thesis:** “Modelling of coastal aquifers using FeFlow software” (Grade 9.5/10.00).
- **Modules:** Fluid mechanics, Applied hydraulics, Hydrology for engineers, Environmental engineering, Urban drainage networks, Free surface flow mechanics, Coastal engineering, WwTW engineering, Groundwater flow, Water resources engineering, Wastewater engineering, Hydraulic experiments.

1st General Lyceum of Zografou

High School Certificate

SEPTEMBER 2001 - JULY 2004, ATHENS (GREECE)

- **GPA:** 18.98 / 20.00

Memberships

Member of CIWEM

APRIL 2017 - PRESENT, UNITED KINGDOM

Chartered Member of TEE (Technical Chamber of Greece)

SEPTEMBER 2014 - PRESENT, GREECE

Settlement Status

Settled Status

Permanent Right to Live and Work in the UK