



Date of Birth: Jan. 30, 1995



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R. Gate: Dimos Touloumidis



Hobbies: Brazilian Jiu Jitsu

Languages

Greek: Native speaker

English: Proficiency level C1 & IELTS score: 7.5

Dutch: Proficiency level A1

Computer skills

Programming:

> Python

CAD Tools:

> AutoCAD, AutoCAD Civil 3D

Hydraulic Simulators:

> EPANET, Bentley Hammer, Hec – Ras, WEAP, Sobek

Road Design Simulators:

> Anadelta Tessera, ODOS

GIS Software:

> ArcGIS, QGIS

Licenses

European driving license - Category B

Certified Drone Operator Open European Category A1 & A3

Seminars

</> Programming in Python for non-Programmers [30 hours], AUTH, 2020

ArcGIS MOOC courses [30 hours], remote attendance, 2021

Confronting economic crisis - Green ideas for sustainable growth [50 hours], AUTH, 2014

Dimos T. Touloumidis

Dipl. Rural and Surveying Engineer

Introduction

I am a graduate, Rural and Surveying Engineer (AUTH) specializing in Transportation and Hydraulic projects and enthusiast about GIS and Data Analysis using Python. I have involved with the field of design in road construction, hydraulic and topography projects as well as with the field of research in collaboration with the Greek institute ELGO Dimitra. Currently, I am working for the Centre for Research & Technology and specifically in Hellenic Institute of Transport (HIT).

Water is the driving force of all nature

Working Experience

Oct, 2021 – Present **Research Assistant – HIT/CERTH** Thessaloniki
Laboratory B4 (Sector B): Freight transport and logistics
• SPROUT

Jul, 2021 – Present **Teaching Assistant – TU DELFT** Delft
Course "Urban Climate & Hydrology":
• Organization and preparation of course materials,
• Preparation and modification of assignments,
• Grading and giving feedback to the assignments

Nov, 2018 – Aug, 2019 **Military Duties – HELLENIC ARMY** Evros & Thessaloniki
• Training
• Secretariat work at NATO department of Thessaloniki

May, 2018 – Nov, 2018 **Data Analyst – AUTH** Thessaloniki
In the context of the project called "Local and regional development and self-government" the two roles were:
• Register and processing of data
• Organization and implementation of informing and networking actions

Jul, 2017 – Sep, 2018 **Hydraulic Engineer – HYETOS S.A.** Thessaloniki
• Providing help to the company's active projects
• Being part of the working team on projects
• Take on water engineering projects as a Project manager

Nov, 2016 – Jan, 2017 **Surveyor Engineer Intern – HYETOS S.A.** Thessaloniki
• Supporting co-workers to finalise the projects
• Educated on used software
• Printing and preparing the issues

Sep, 2016 – Jan, 2017 **Geographic Information Systems Analyst – AUTH** Thessaloniki
Gathering and analyzing Geographical information in the context of the project called "Ensuring the conservation of biodiversity at all levels of management and spatial, temporal and ecological climates"

Education

Postgraduate Studies

2018 – Present **M. Eng in Water Management** TU Delft
Track: Water resources
Grade: 7.32/10.00 & **ECTS:** 121
MSc thesis title: Soccer fields as rain detectors: A machine learning approach
Grade of thesis: 7.5/10



2013 – 2018 **BSc in Rural and Surveying Engineering**
M. Eng in Transportation and Hydraulic Engineering AUTH
Diploma: Integrated 1st & 2nd cycle degree
Specialization: Hydraulic Engineering
Grade: 7.66/10 & **ECTS:** 300
BSc & MSc thesis title: Water hammer phenomenon in pressurized irrigation networks: Implementation utilizing specialized software
Grade of thesis: 10./10

Projects involved

Design of an additional sewer pipe at Ag.Orous street in the Municipality of Thermi.

Software used: AutoCAD, Technologismiki

Surveying plotting of the area of 3-5 Pigadia.

Software used: AutoCAD, AutoCAD Civil, Excel

Replacement of the irrigation system of the Limnohori.

Software used: AutoCAD, Technologismiki, Bentley Hammer

Highway design.

Software used: AutoCAD Civil, ODOS S.A.

Honours & Awards

Jan 2021 1st Prize: Urban Mobility Challenges in post COVID-19 era Thessaloniki, Greece

Thesis supervised

Sep 2021 - **BSc Thesis - K.H. de Bruijn** TU Delft
Nov 2021 "Dry spells and soil water content in northern Ghana:
How dry spells and soil water content patterns have changed during the past decades"

Publications

Aschonitis, V., Touloumidis, D., ten Veldhuis, M.-C., and Coenders-Gerrits, M.: Correcting Thornthwaite potential evapotranspiration using a global grid of local coefficients to support temperature-based estimations of reference evapotranspiration and aridity indices, *Earth Syst. Sci. Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2021-115>, in review, 2021.

Touloumidis, D., Charisoudis, N., Evangelidis, C. and Papaevangelou, G., 2021. Comparing the results of two simulating models of the Water Hammer phenomenon: Bentley Hammer V8i and Greek Legislation. [online] Fig.net. Available at: <https://www.fig.net/resources/proceedings/fig_proceedings/fig2020/papers/ts02fTS02F_touloumidis_charisoudis_et_al_10264.pdf> [Accessed 29 August 2021]