Autumn Mannsfeld

ABOUT ME

I currently am an environmental data analyst at the Euro-Mediterranean Center for Climate Change, and am a recent ecosystem engineering Master's graduate from KU Leuven with a background in biochemical engineering. I enjoy collecting data in the field and applying computer skills to environmental analysis, and am interested in furthering my knowledge in environmental issues.

WORK EXPERIENCE

[10/02/2025 – Current]

Data Analyst Expert on Ecosystems and Climate Targets

Euro-Mediterranean Center for Climate Change (CMCC)

Analyzing environmental data and uncovering relationships between the macroclimate and microclimates for the forest ecosystem in Piegaro, PG, Italy

[10/2019 – 07/2021]

Undergraduate (Bachelor's) Research Assistant

Block Lab at the University of California, Davis

Analyzed multiple sensors' raw data and developed code for single-grapevine evapotranspiration (ET) prediction model, for a graduate student pursuing a PhD

[09/2020 – 04/2021]

Product Management Specialist

BeeHively Education Management

Collaborated with a development team to solve education software issues

[09/2019 – 06/2020]

Arboretum Ambassador

University of California, Davis

Created environment- and ecology-focused projects, activities, and reports for the local community, with a group of 12 people

EDUCATION AND TRAINING

[09/2021 – 07/2024]

Master of Science (MSc) in Agro- and Ecosystems Engineering

Katholieke Universiteit Leuven https://www.kuleuven.be/english/kuleuven

City: Leuven | **Country:** Belgium | | **Final grade:** Cum Laude | **Thesis:** Impact of Forest Structure on Microclimate Conditions in Meerdaal Forest

Major in Forest, Nature, and Landscape; Minor in Environmental Technology

[09/2017 – 06/2021]

Bachelor of Science (BSc) in Biochemical Engineering

University of California, Davis https://www.ucdavis.edu/

City: Davis, CA | **Country:** United States |

PUBLICATIONS

[2023]

Novel algorithms for high-resolution prediction of canopy evapotranspiration in grapevine

Reference: Jenkins, M., Mannsfeld, A., et al. (2023). OENO One, 57-3, 315-326

Using sensor data from temperature, humidity, and wind speed on individual grapevines, we developed three predictive models to estimate actual single-plant ET, measured through water usage of individual grapevines.