

Dafni Despoina Avgoustaki

PhD Fellow

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Education

2018- PhD Fellow. Aarhus University, BTECH Department, Herning, Denmark

2015-2016: MCs, Automatismes in Irrigation, in Agricultural Structures and Mechanization in Agriculture, University of Thessaly, Department of Agriculture Crop Production and Rural Environment.

Diploma Thesis: 'Use of Remote Sensing for Stress Detection in a Tomato Crop.'

2015: Erasmus Placement for training in MCs, Universidad de Almeria, Spain.

2008-2014: Bachelor-MCs, University of Thessaly, Department of Agriculture Crop Production and Rural Environment.

Diploma Thesis: 'Growth and development of the energetic plant Panicum Virgatum at the city of Velestino during the year 2012'.

Research Areas

Vertical Farms-Plant Factories

Horticulture Lighting Optimization

Energy Analysis- Energy Demand

Sustainable Agriculture

Precision Agriculture

Hydroponics

Renewable Energy Sources

Urban Farming

Remote Sensors (Hyperspectral and Multispectral Cameras)

Teaching Areas

Sustainable Environment and Agriculture

Food Production and Sustainability
Innovative Technologies in Agriculture
Vertical Farms, Technology and Optimization
Circular Economy in Agriculture
Sampling Techniques

Publications

2019

Avgoustaki D. D. (2019). Optimization of Photoperiod and Quality Assessment of Basil Plants Grown in a Small-Scale Indoor Cultivation System for Reduction of Energy Demand. *Energies* 12(20): 3980

Avgoustaki D. D. and Xydis G. (2019). Plant Factories in the Water-Food-Energy Nexus Era: A Systematic Bibliographical Review. *Food Security*. (Accepted waiting for publication)

2018

Elvanidi A., Katsoulas N., Avgoustaki D. D., Loulou I. and Kittas C. (2018). Crop reflectance measurements for nitrogen deficiency detection in a soilless tomato crop. *Biosystems Engineering*. 176, p. 1-11

Dissemination

2019

Conference Speaker. Vertical Farm Conference 2019. "Indoor Urban Farming, the Beginning of a Sustainable Era in Food Production. How We can Reduce the Energy Demand Cost". Venlo, Netherlands. (June 2019)

Poster Presentation. VertiFarm Conference 2019. "Optimization of Energy Consumption Cost in Vertical Farms under Different Photoperiods". Wageningen, Netherlands. (October 2019)

Guest Lecture. Start up Venture Ideas and pitching techniques. MSc Marketing at University of Bristol; Course "Strategic Brand Management".(March 2019)

Presentation. "Indoor Vertical Farming, the Future of Agriculture. The beginning of Sustainable Era in Food Production" at Manufacturing Festival, Aarhus University, BTECH Department of Herning. (May 2019)

Presentation. "Indoor Vertical Farming, the Future of Agriculture. The beginning of Sustainable Era in Food Production". IOT week Festival. Aarhus University. (May 2019)

Guest Lecture. "Sustainable products and sustainable consumption research "The case of Plant Factories". Bachelor Course: Sustainable production and consumption 2019. Aarhus University, BSS Department. (November 2019)

Guest Lecture. "Advanced Operations Management". MSc in Engineering (Technology Based Business Development). Aarhus University, BTECH Department of Herning. (October 2019)

2018

EIT FOOD, Global Food Venture Program, Participant of the program that took place in 3 different stops in vital position, June 2018 Munich, July 2018 Haifa-Israel, October 2018 San Francisco-USA, Final Competition November 2018 Paris.