

## ● WORK EXPERIENCE

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01/02/2022 – CURRENT – Valenzano, Italy

**WATER MANAGEMENT AND MODELLING EXPERT** – INTERNATIONAL CENTRE OF ADVANCED MEDITERRANEAN AGRONOMIC STUDIES (CIHEAM)

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Mediterranean Agronomic Institute of Bari | Professional, scientific and technical activities |

[iamdir@iamb.it](mailto:iamdir@iamb.it) | [www.iamb.it](http://www.iamb.it)

14/07/2021 – 14/07/2022 – Mestre, Italy

**RESEARCHER** – UNIVERSITY OF VENICE - CA' FOSCARI

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Department of Environmental Sciences, Informatics and Statistics |

Professional, scientific and technical activities | [segreteria@unive.it](mailto:segreteria@unive.it) | [www.unive.it](http://www.unive.it)

07/06/2019 – 14/06/2021 – Bari, Italy

**RESEARCHER** – ITALIAN NATIONAL RESEARCH COUNCIL (CNR)

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Institute for Electromagnetic Sensing of the Environment (IREA) |

Professional, scientific and technical activities | [responsabile\\_bari@irea.cnr.it](mailto:responsabile_bari@irea.cnr.it) | <http://www.irea.cnr.it/> |

Via Amendola, 122/D, 70126, Bari, Italy

06/04/2017 – 31/08/2018 – Gainesville, FLORIDA, United States

**RESEARCHER / VISITING-SCHOLAR** – UNIVERSITY OF FLORIDA (UFL)

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Agricultural and Biological Engineering (ABE) | Professional, scientific and technical activities |

[abeinfo@ufl.edu](mailto:abeinfo@ufl.edu) | <http://www.abe.ufl.edu> |

1741 Museum Rd, 32603, Gainesville, FLORIDA, United States

01/11/2015 – 31/10/2018 – Bari, Italy

**RESEARCHER** – POLYTECHNIC UNIVERSITY OF BARI (POLIBA)

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Department of Civil, Environmental, Building Engineering and Chemistry (DICATECh) |

Professional, scientific and technical activities | [dicatech.poliba@legalmail.it](mailto:dicatech.poliba@legalmail.it) |

<http://www.dicatechpoliba.it/> | Via Edoardo Orabona 4, 70125, Bari, Italy

01/10/2015 – 31/12/2015 – Valenzano, Italy

**CONSULTANT** – INTERNATIONAL CENTRE OF ADVANCED MEDITERRANEAN AGRONOMIC STUDIES (CIHEAM)

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Agronomic Institute of Bari - Land and Water Resources Management |

Professional, scientific and technical activities | [iamdir@iamb.it](mailto:iamdir@iamb.it) | <https://www.iamb.it/> |

Via Ceglie 9, 70010, Valenzano, Italy

04/10/2013 – 26/10/2015 – Valenzano, Italy

**GRADUATED STUDENT RESEARCHER** – INTERNATIONAL CENTER OF ADVANCED MEDITERRANEAN AGRONOMIC STUDIES (CIHEAM)

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Agronomic Institute of Bari - Land and Water Resources Management |

Professional, scientific and technical activities | [iamdir@iamb.it](mailto:iamdir@iamb.it) | <https://www.iamb.it/> |

Via Ceglie 9, 70010, Valenzano, Italy

## ● EDUCATION AND TRAINING

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01/10/2015 – 28/01/2019 – Via Amendola 126/B, Bari, Italy

**DOCTOR OF PHILOSOPHY IN RISK AND ENVIRONMENT, TERRITORIAL AND BUILDING DEVELOPMENT** – Polytechnics University of Bari

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### Field(s) of study

- Hydrology
- Agronomy
- Remote Sensing
- Modeling & Model Coupling

**Thesis:** Advanced Computer Technologies for Integrated Agro-Hydrologic Systems Modeling

Cum Maxima Laude | EQF level 8 | <http://www.poliba.it/>

15/05/2017 – 20/05/2017 – McCarty Hall, 1604 McCarty Dr n°1008, Gainesville, FLORIDA, United States

**DSSAT INTERNATIONAL TRAINING PROGRAM** – University of Florida, University of Auburn, IFDC, DSSAT Foundation

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### Field(s) of study

- Assessing Crop Production, Nutrient Management, Climatic Risk and Environmental Sustainability with Simulation Models

EQF level 7 | <https://ifas.ufl.edu>

04/10/2013 – 26/10/2015 – Via Ceglie 9, Valenzano, Italy

**MASTER OF SCIENCE** – International Center of Advanced Mediterranean Agronomic Studies (CIHEAM)

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### Field(s) of study

- Land and Water Resources Management

**Thesis:** Continuous land use/land cover changes impacts on stream flow discharge modelisation and driving fa

Cum Maxima Laude | EQF level 5

**Field(s) of study**

- Management, Technology and Entrepreneurship

EQF level 5 | <https://www.insa-lyon.fr/>

**Field(s) of study**

- Hydraulics Engineering

**Thesis:** Design Flood Protection System for the Garden Valley, Mostaganem

EQF level 3 | <https://www.ensh.dz>

● **LANGUAGE SKILLS**

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Mother tongue(s): **BERBER LANGUAGES**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ITALIAN</b>	C2	C2	C2	C2	C2
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>FRENCH</b>	C2	C2	C2	C2	C2
<b>ARABIC</b>	C2	C2	C2	C2	C2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

● **DIGITAL SKILLS**

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**FIELDS**

Hydrology | Hydraulics | Agronomy | Remote Sensing | GIS (Geographical Information System)

**DESIGN**

Dams | Irrigation Systems | Urban Water Drainage Systems | Protective Flood Systems | Drinking Water Network Systems

**PROGRAMMING**

MATLAB&Simulink | C++ | FORTRAN 77/90/95 | R | Julia | Python | GAMS

**MODELS**

DSSAT | VIC | AquaCrop-GIS | WaterGEMS | AquaCrop | DREAM | HBV | MIKE SHE | TOPMODEL | SWAT

## MANAGEMENT

Resources | Time | Staff | Works

## OPERATION

Organization | Functional Analysis | Negotiation | Business Planning | Problem Solving | Strategic Marketing | Decision Making

## PERSONAL SKILLS

Leadership | Adaptation | Proactive | Autodidact | Communication

## ● REFERENCES

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### Reference Contacts

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**Gerrit Hoogenboom** (*PH.D. MENTOR*)

Full Professor in Crop Modeling, Decision Support Systems, Food Security, Institute for Sustainable Food Systems, Agricultural and Biological Engineering

University of Florida, USA,

[gerrit@ufl.edu](mailto:gerrit@ufl.edu)

**Vito Iacobellis** (*PH.D. MENTOR*)

Full Professor in Hydraulics Construction, Maritime and Hydrology.

Polytechnic University of Bari, Italy

[vito.iacobellis@poliba.it](mailto:vito.iacobellis@poliba.it)

**Pandi Zdruli** (*MSc. MENTOR*)

Professor in Agronomy, Soil Science and Water Management

International Center of Advanced Mediterranean Agronomic Studies (CIHEAM)

Mediterranean Agronomic Institute of Bari, Italy

[pandi@iamb.it](mailto:pandi@iamb.it)

**Ilan Stavi** (*CO-AUTHOR*)

Ph.D. in Physical Geography, Geo-ecology, Land-use change, Soil organic carbon, Surface processes  
Dead Sea and Arava Science Center

Yotvata 88820, Israel; 2 Eilat Campus, Ben-Gurion, University of the Negev, Eilat 88100, Israel

[istavi@adssc.org](mailto:istavi@adssc.org)

## Publications

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Stavi I, Siad SM, Kyriazopoulos AP, Halbac-Cotoara-Zamfir R. Water runoff harvesting systems for restoration of degraded rangelands: A review of challenges and opportunities. *J Environ Manage* 2020;255. <https://doi.org/10.1016/j.jenvman.2019.109823>.

Siad SM. *Advanced Computer Technologies for Integrated Agro-Hydrologic Systems Modeling: Coupled Crop and Hydrologic Models for Agricultural Intensification Impacts Assessment*. Polytechnic University of Bari (Politecnico di Bari), 2019.

Siad SM, Iacobellis V, Zdruli P, Gioia A, Stavi I, Hoogenboom G. A review of coupled hydrologic and crop growth models. *Agric Water Manag* 2019;224. <https://doi.org/10.1016/j.agwat.2019.105746>.

Siad SM, Gioia A, Hoogenboom G, Iacobellis V, Novelli A, Tarantino E, et al. Durum wheat cover analysis in the scope of policy and market price changes: A case study in Southern Italy. *Agric* 2017;7:12. <https://doi.org/10.3390/agriculture7020012>.

Siad SM. Continuous land use/land cover changes impacts on stream flow discharge modelisation and driving factors investigation. CIHEAM-IAMB, 2015. <https://doi.org/http://sebina.iamb.it/opac/resource/continuous-land-use-land-cover-changes-impacts-on-stream-flow-discharge-modeling-and-driving-factors-/CIH0023031?locale=eng>.