

EUROPEAN
CURRICULUM
VITAE
FORMAT



PERSONAL INFORMATION

Name **RINALDI, Michele**
Address
Telephone
Fax
E-mail

Nationality

Date of birth

WORKING EXPERIENCES

- Dates (from – to) **FROM AUGUST 2012 TODAY**
- Name and address of employer **Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria - Centro di Ricerca Cerealicoltura e colture Industriali, Foggia**
- Type of business or sector **Public Research Institution**
- Occupation or position held **Senior Researcher, II lev.**
- Main activities and responsibilities **Research in the agronomic and cereal crops sectors**

- Dates (from – to) **FROM JANUARY 2003 TO JULY 2012**
- Name and address of employer **Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria - Unità di Ricerca per i sistemi culturali degli ambienti caldo-aridi, Bari**
- Type of business or sector **Public Research Institution**
- Occupation or position held **Senior Researcher, II lev.**
- Main activities and responsibilities **Research in the agronomic sector**

- Dates (from – to) **FROM JANUARY 1998 TO DECEMBER 2002**
- Name and address of employer **Istituto Sperimentale Agronomico, Bari**
- Type of business or sector **Public Research Institution**
- Occupation or position held **Researcher, III lev.**
- Main activities and responsibilities **Research in the agronomic sector**

- Dates (from – to) **FROM JULY 1996 TO DECEMBER 1997**
- Name and address of employer **Istituto Sperimentale per la Floricoltura, sezione operativa periferica di Pescia (PT)**
- Type of business or sector **Public Research Institution**
- Occupation or position held **Researcher, III lev.**
- Main activities and responsibilities **Research in the flower sector**

- Dates (from – to) **FROM JULY 1988 TO JUNE 1996**
- Name and address of employer **Istituto Sperimentale Agronomico, Bari**
- Type of business or sector **Public Research Institution**
- Occupation or position held **Technologist, III liv.**

- Main activities and responsibilities
 - Dates (from – to) FROM JANUARY 1988 TO JUNE 1988
 - Name and address of employer **Istituto Sperimentale per la Cerealicoltura, sezione operativa periferica di Foggia**
 - Type of business or sector Public Research Institution
 - Occupation or position held Fellowship
- Main activities and responsibilities Research in the cereal crops sector, in the frame work of the Project "Cereali - Miglioramento genetico grano duro per ambienti difficili"

EDUCATION AND TRAINING

- Dates (from – to) 27 September 2016
- Name and type of organisation providing education and training University of Bari – Department of Soil, Plant and Food Science
- Principal subjects/occupational skills covered
 - Title of qualification awarded Selected for **Associated Professor in Agronomy, Field and Horticultural Crops**
 - Level in national classification (if appropriate)
- Dates (from – to) 2014-2020
- Name and type of organisation providing education and training Ministry of University, Education and Research
- Principal subjects/occupational skills covered
 - Title of qualification awarded **National qualification to be Full Professor in Agronomy, Field and Horticultural Crops**
 - Level in national classification (if appropriate)
- Dates (from – to) 2 March 2016
- Name and type of organisation providing education and training Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria - Centro di Ricerca per la Cerealicoltura, Foggia
- Principal subjects/occupational skills covered
 - Title of qualification awarded **Corso di Sicurezza sul Lavoro** (ai sensi degli artt. 36/37 del D.Lgs. 81/08)
 - Level in national classification (if appropriate)
- Dates (from – to) 4 March 2015
- Name and type of organisation providing education and training Università degli Studi di Bologna, Facoltà di Agraria
- Principal subjects/occupational skills covered
 - Title of qualification awarded **DROPS Training Course "Phenotyping for drought tolerance"**, organizzato dal prof. R. Tuberosa (Univ. Bologna) e tenuto dai prof. F. Tardieu (INRA France) e G. Hammer (Univ. Queensland, AUS)
 - Level in national classification (if appropriate)
- Dates (from – to) Dal 9 al 10 Dicembre 2014
- Name and type of organisation providing education and training Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria - Unità di Ricerca per i sistemi colturali degli ambienti caldo-aridi, Bari
- Principal subjects/occupational skills covered
 - Title of qualification awarded **Corso sul LIFE CYCLE ASSESSMENT e sul software SIMAPRO**, organizzato e tenuto dal dr. Leo Breedveld della società 2B s.r.l.

- Level in national classification
(if appropriate)
- Dates (from – to) March - August 2012
- Name and type of organisation providing education and training University of Florida, Indian River Research and Education Center (IRREC), 2199 South Rock Road Ft. Pierce, Florida, USA
- Principal subjects/occupational skills covered **Visiting Scientist**
- Title of qualification awarded
- Level in national classification
(if appropriate)
- Dates (from – to) October 2009 – February 2010
- Name and type of organisation providing education and training Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria - Rome
- Principal subjects/occupational skills covered **Frequency to 3 training modules of 3, 5 and 4 days, respectively, for the submission of research projects of Seven European Framework, organized by the APRE (Agency for European Research).**
- Title of qualification awarded
- Level in national classification
(if appropriate)
- Dates (from – to) June 2008
- Name and type of organisation providing education and training Texas A&M University, College Station, TX, USA
- Principal subjects/occupational skills covered Frequency of "International Training Program on SWAT model", a software for crop-environment model simulation
- Title of qualification awarded
- Level in national classification
(if appropriate)
- Dates (from – to) April-July 2002
- Name and type of organisation providing education and training IACR-Rothamsted Research, Harpenden (UK)
- Principal subjects/occupational skills covered **OECD fellowship "Evaluating simulation modules for the crop emergence under extreme/variable climate and soil conditions", 16 weeks at IACR-Rothamsted (UK)**
- Title of qualification awarded
- Level in national classification
(if appropriate)
- Dates (from – to) 1981-1986
- Name and type of organisation providing education and training University of Bari
- Principal subjects/occupational skills covered **Master Degree in Agricultural Science, with the maximum score, (110 cum laude/110)**
- Title of qualification awarded
- Level in national classification
(if appropriate)

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas*

MOTHER TONGUE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc..*

ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

PROJECT EVALUATION ACTIVITY

- 2005 – ONE RESEARCH PROJECT FOR ITALIAN MINISTRY OF AGRICULTURE
- 2007 - ONE COST-ACTION RESEARCH PROJECT FOR STATE SECRETARIAT FOR EDUCATION AND RESEARCH –SWISS CONFEDERATION
- 2009 - THREE RESEARCH PROJECTS FOR RESEARCH GRANTS TO THE UNIVERSITY OF MILAN
- 2011 - ELEVEN RESEARCH PROJECTS FOR ERA-NET CORE ORGANIC II
- 2013 – TWO RESEARCH PRIN PROJECTS FOR ITALIAN MINISTRY OF EDUCATION AND RESEARCH
- 2014 – ONE RESEARCH GRANT PROPOSAL FOR THE UNITED ARAB EMIRATES UNIVERSITY
- 2015 - ELEVEN RESEARCH PROJECTS FOR ERA-NET CORE ORGANIC PLUS
- 2016 – FIVE RESEARCH PRIN 2015 PROJECTS FOR ITALIAN MINISTRY OF EDUCATION AND RESEARCH
- 2016 – ONE RESEARCH PROJECT FOR BELGIAN FEDERAL GOVERNMENT, FEDERAL SCIENCE POLICY OFFICE, STEREO III PROGRAMME (SUPPORT TO THE EXPLOITATION AND RESEARCH OF EARTH OBSERVATION DATA)
- 2016 – ONE RESEARCH PROJECT FOR THE UNIVERSITY OF SASSARI
- 2016 - ONE RESEARCH PROJECT FOR THE INTERNATIONAL CENTRE FOR RESEARCH IN ORGANIC FOOD SYSTEMS (ICROFS) – RDD 3 CALL - DENMARK
- 2018 – THREE RESEARCH PROJECTS FOR THE INTERNATIONAL CENTRE FOR RESEARCH IN ORGANIC FOOD SYSTEMS (ICROFS) – RDD 4 CALL – DENMARK
- 2018 – FOUR RESEARCH PROJECTS FOR THE EUREKA-EUROSTAR PROGRAMME
- 2018 – SIX RESEARCH PRIN 2017 PROJECTS FOR ITALIAN MINISTRY OF EDUCATION AND RESEARCH
- 2019 – TWO RESEARCH PROJECTS FOR THE EUREKA-EUROSTAR PROGRAMME
- 2019 – THREE RESEARCH PROJECTS FOR THE SUSFOOD-CORE ORGANIC JOINT CALL
- 2019 – THREE RESEARCH PROJECTS FOR THE "PIANI DI INNOVAZIONE" DELLA REGIONE EMILIA-ROMAGNA PROGRAMME

ITALIAN

ENGLISH	FRENCH
Excellent	Sufficient
Excellent	Sufficient
Good	Sufficient

MAIN RECENT RESEARCH PROJECTS RESPONSABILITY

- 2019-2022 European Project – "Research-based participatory approaches for adopting Conservation Agriculture in the Mediterranean Area - CAMA" call PRIMA 2019, Grant Agreement n. 1912"; Total budget 1.500.000 €; 390.000 € budget of CREA.
- 2017-2018 Scientific Responsible of "Ovile Nazionale" Experimental Farm, Segezia, Foggia
- 2016-2019 European Project – "Sentinels Synergy for Agriculture - SENSAGRI" call H2020-EO-2016, Grant Agreement n. 730074" remote sensing application in agriculture; € 321.000 (budget of CREA).

- 2016-2019 funded by Puglia Region "Sperimentazione e Trasferimento di Tecniche innovative di agricoltura conservativa (STRATEGA)" about conservative agriculture; € 100.000.
- 2014-2015 Project funded by Basilicata Region "Approcci innovativi per il miglioramento delle performances ambientali e produttive dei sistemi cerealicoli no-Tillage (BIO-TILLAGE)" about conservative agriculture; € 32.000.
- 2005-2011 Scientific coordinator of the Italian Ministry of Agriculture Project "Decision support systems for conservation and territorial management of water resources in vulnerable areas of Southern Italy (AQUATER)", € 1.750.000.
- 2006-2010 Scientific coordinator of the Italian Ministry of Agriculture Project "New methods for water saving (RISP-IDRIC)", € 250.000.
- 2005-2010 Project FISR co-funded by Italian Ministries MIUR and MIPAAF "Evolution of cropping systems following climate change" (CLIMESCO), € 2.354.000.
- 2005-2012 Scientific Responsible of "Podere 124" Experimental Farm, Foggia.

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

STATISTICAL ANALYSIS SOFTWARE PACKAGES

- Sustainable and organic cropping systems**, mainly wheat-based, but also legume, sorghum, beet, sunflower and tomatoes.
- Irrigation use efficiency**, methodology for crop water requirement estimation, physiological approach.
- Conservative agriculture**, with researches on crop yield and quality, soil characteristics, crop management.
- Crop simulation models**: Major experience is about EPIC, CROPSYST, DSSAT and AQUACROP models with application in crop management and climate change.
- Precision agriculture**: remote sensing images to retrieve crop information to apply variable-rate input application.

ARTISTIC SKILLS AND COMPETENCES

Music, writing, design, etc.

OTHER SKILLS AND COMPETENCES

Competences not mentioned above.

TEACHING

- Co-Tutor of 3 PhD students, at the University of Bari (2) and at the University of Foggia (1).
- Co-Tutor of 1 Mater student, at the Politecnico of Bari.
- "Statistical Analysis" course in the Master programme "Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops", Unit VIII: IPM Information Technologies, IAMB, Valenzano (BA) 7-10 April 2015, 32 hours.
- "Crop Growth Modelling: eco-physiological and engineering aspects" course in the Master programme "Land and Water Resources Management: Irrigated Agriculture", Unit III "Irrigation Management: Soil-Water-Plant-Atmosphere Continuum", IAMB, Valenzano (BA) 14-18 December 2016, 32 hours.
- "Statistical Analysis" course in the Master programme "Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops", Unit VIII: IPM Information Technologies, IAMB, Valenzano (BA), 28-29 January and 8-10 February 2017, 32 hours.
- "Statistical Analysis" course in the Master programme "Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops", Unit VIII: IPM Information Technologies, IAMB, Valenzano (BA), 25-31 January 2018, 32 hours.
- "Statistical Analysis" course in the Master programme "Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops", Unit VIII: IPM Information Technologies, IAMB, Valenzano (BA), 28 January-1 February 2019, 32 hours.
- "Statistical Analysis" course in the Master programme "Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops", Unit IV: Smart-Decision Support Tools in IPM, IAMB, Valenzano (BA), 27-31 January- 2020, 32 hours.

RECENT SCIENTIFIC PUBLICATIONS

- Rinaldi, M., Garofalo, P., 2011. Radiation-use efficiency of irrigated biomass sorghum in a Mediterranean environment. **Crop Pasture and Science**, 62:830-839.
- Ventrella, D., Charfeddine, M., Moriondo, M., Rinaldi, M., Bindi, M., 2012. Agronomic Adaptation

- Strategies under Climate Change for Durum Wheat and Tomato in Southern Italy: Irrigation and Nitrogen Fertilization. **Regional Environmental Change**, 12, 3, 407-419.
- De Benedetto, D., Castrignanò, A., Rinaldi, M., Ruggieri, S., Santoro, F., Figorito, B., Gualano, S., Diacono, M., Tamborrino, R., 2013. An approach for delineating homogeneous zones by using multi-sensor data. **Geoderma**, 199, 117-127.
- De Benedetto D., Castrignanò A., Diacono, M., Rinaldi, M., Ruggieri S., Tamborrino R., 2013. Field partition by proximal and remote sensing data fusion. **Biosystems Engineering**, 114, 4, 372-383.
- Garofalo, P., Rinaldi, M., 2013. Modelling phenotypical traits to adapt durum wheat to climate change in a Mediterranean environment. **Italian Journal of Agrometeorology**, 2, 25-38.
- Garofalo, P., Rinaldi, M., 2013. Water-use efficiency of irrigated biomass sorghum in a Mediterranean environment. **Spanish Journal of Agricultural Research**, 11(4):1153-1169.
- Balenzano, A., Satalino, G., Lovergine, F., Rinaldi, M., Iacobellis, V., Mastronardi, N. And Mattia, F., 2013. On the use of temporal series of L- and X- band SAR data for soil moisture retrieval. Capitanata plain case study. **European Journal of Remote Sensing**, 46:721-737.
- Rinaldi, M., Satalino, G., Mattia, F., Balenzano, A., Perego, A., Acutis, M., Ruggieri, S., 2013. Assimilation of COSMO-SkyMed-derived LAI maps into the AQUATER crop growth simulation model. Capitanata (Southern Italy) case study. **European Journal of Remote Sensing**, 46: 891-908.
- Rinaldi M., He Z., 2014. Decision Support Systems to Manage Irrigation in Agriculture. In Donald Sparks, Donald Sparks, editors, UK: Academic Press: **Advances in Agronomy**, 123:229-280.
- Rinaldi, M., Castrignanò, A., De Benedetto, D., Solitto, D., Ruggieri, S., Garofalo, P., Santoro, F., Figorito, B., Gualano, S., Tamborrino, R., 2014. Discrimination of tomato plants under different irrigation regimes: analysis of hyperspectral sensor data. **Environmetrics**, 26:77-88.
- Garofalo, P., Rinaldi, M., 2015. Leaf gas exchange and radiation use efficiency of sunflower (*Helianthus annuus* L.) in response to different deficit irrigation strategies: from solar radiation to plant growth analysis. **European Journal of Agronomy**, 64, 88-97.
- Colecchia, S.A., Rinaldi, M., De Vita, P., 2015. Effects of tillage systems in durum wheat under rainfed Mediterranean conditions. **Cereal Research Communications**, 43(4): 704-716.
- Di Paolo, E., Garofalo, P., Rinaldi, M., 2015. Irrigation and nitrogen fertilization treatments on productive and qualitative traits of broad bean (*Vicia faba* var. minor L.) in a Mediterranean environment. **Legume Research**, 38(2):209-218.
- Rinaldi, M., Rascio, A., Garofalo, P., 2015. Sunflower and biomass sorghum photosynthesis response to CO₂ enrichment. **Romanian Agricultural Research**, 32:1-10.
- Garofalo, P., D'Andrea, L., Vonella, A.V., Rinaldi, M., Palumbo, A.D., 2015. Energy performance and efficiency of two sugar crops for the biofuel supply chain. Perspectives for sustainable field management in southern Italy. **Energy**, 93:1548-1557.
- Troccoli, A., Maddaluno, C., Mucci, M., Russo, M., Rinaldi, M., 2015. Is it appropriate to support the farmers for adopting Conservation Agriculture? Economic and environmental impact assessment. **Italian Journal of Agronomy**, 10:169-177.
- Garofalo, P., D'Andrea, L., Vonella, A.V., Rinaldi, M., Palumbo, A.D., 2016. Sweet sorghum in a bioethanol supply chain: effects of different soil and nitrogen management on energy performances and greenhouse gas emissions. **Italian Journal of Agrometeorology**, 2:15-24.
- De Santis, G., D'Ambrosio, T., Rinaldi, M., Rascio, A., 2016. Heritabilities of morphological and quality traits and interrelationships with yield in quinoa (*Chenopodium quinoa* Willd.) genotypes in the Mediterranean environment. **Journal of Cereal Science**, 70:177-185.
- De Santis, G., Maddaluno, C., D'Ambrosio, T., Rascio, A., Rinaldi M., Troisi J., 2016. Characterization of quinoa (*Chenopodium quinoa* Willd) accessions for the saponin content in Mediterranean environment. **Italian Journal of Agronomy**, 11:277-281.
- Rinaldi, M., Scalcione, E., Perniola, M., Maddaluno, C., Garofalo, P., 2017. Soil tillage and residues management in wheat continuous cropping in Southern Italy: A model application for agronomic and soil fertility assessment. **Computers and Electronics in Agriculture**,

140:77–87.

- De Santis, G., Rascio, A., Pecchioni, N., Troisi, J., D'Ambrosio, T., Caradonia, F., Ronga, D., Rinaldi, M., 2018. Evaluation of coloured quinoa (*Chenopodium quinoa* Willd.) genotypes of a breeding program for the Mediterranean environment. **Crop Pasture & Science**, 69:1264-1275.
- Pasqualotto, N., Delegido, J., Van Wittenberghe, S., Rinaldi, M., Moreno, J., 2019. Multi-crop green LAI estimation with a new simple Sentinel-2 LAI Index (SeLI). **Sensors**, 19, 904.
- Castellini, M., Fornaro, F., Garofalo, P., Giglio, L., Rinaldi, M., Ventrella, D., Vitti, C., Vonella, A.V., 2019. Effects of no-tillage and conventional tillage on physical and hydraulic properties of fine textured soils under winter wheat. **Water**, 11, 484.
- Rascio, A., Rinaldi, M., De Santis, G., Palazzo, G., Palazzo, N., Pecchioni, N., 2019. Measurement of leaf lamina moisture with a low-cost electrical humidity sensor: case study on a wheat water-mutant. **BMC Plant Biology** 19, 411. Doi:10.1186/s12870-019-1987-4.
- Barca, E., Castrignanò, A., Ruggieri, S., Rinaldi, M., 2020. A new supervised classifier exploiting spectral-spatial information in the Bayesian framework. **Int. J. Applied Earth Observation and Geoinformation**, 86, 101990. <https://doi.org/10.1016/j.jag.2019.101990>

EDITOR OF ITALIAN JOURNAL OF AGRONOMY (WWW.AGRONOMY.IT) SINCE 2011, WITH THE
ATTRIBUTION OF IMPACT FACTOR SINCE 2015 (WOS IF 2018 = 0.965).

DRIVING LICENCE(S)

Driving car licence "B"

ADDITIONAL INFORMATION

ANNEXES

I authorize the processing of my personal data according to D.lgs. 196 of 30th June 2003.

Foggia, 3rd February 2020