

PERSONAL INFORMATION

Seyedehfatemeh Kiaeianmoosavi

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WORK EXPERIENCE

April 2024 to April 2025

Research assistant (post-doc fellow)

University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)

Interplay between nutritional responses in cultivated plants

- Hydroponic growing of Tomato plants
- Evaluation of the physiological and molecular responses of the grown plants
- Data elaboration and scientific paper preparation

April 2023 to April 2024

Research assistant (post-doc fellow)

University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)

Green extraction technologies of polyphenols applied for the revaluation of sunflower (*Helianthus annuus* L.) oil by-products

- Evaluation of the best extraction operating conditions to use for ultrasound assisted extraction (type and amount of solvent, ultrasound intensity, sonication time) and SC-CO₂ (type and amount of co-solvent, P, T, etc.) extraction of phenolic components from sunflower oil by-products to test by TPC
- Chemical and physical characterization of extracts and the corresponding raffinates

July 2021 to January 2023

Research assistant (post-doc fellow)

University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)

Cold press hemp seed oil (*Cannabis sativa* L.): improvement of quality using innovative technologies

- Applying Ultrasound technology in the process of hemp oil bleaching
- Microwave treatment of hemp seeds

Papers ready to publish:

- Ultrasound bleaching of hemp seed (*Cannabis sativa* L.) oil in batch and continuous operating mode: response surface optimization of effecting factors

January 2017 to June 2021

Research collaborator of the Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)

University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)

- Working in the laboratory of soil chemistry on the isolation of humic substances from soil and peat (preparation of Humic and Fulvic acid standards for the International Humic Substances Society "IHSS")
- Laboratory manager of the CHNS Elemental Analyser coupled to a stable isotope ratio mass spectrometer
- Analysis of data deriving from elemental analysis of carbon and nitrogen of vegetable and / or soil matrices with relative analysis (d13C and d15N)

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EDUCATION AND TRAINING

January 2013 – April 2016 **Research Doctorate in Agricultural Science and Biotechnology**

Ottimo (Italian),
Excellent (English)

University of Udine, Department of Agricultural and Environmental Sciences (DISA), Cycle XXVIII, Udine, Italy

▪ **Thesis:** Studies on environmental-friendly strategies for the management of *Lobesia botrana* (Lepidoptera: Tortricidae) and other grapevine pests, PhD thesis, University of Udine, Udine, Italy, 209 pp.

Supervisor: Prof. Pietro Zandigiacomo

Co-Supervisor: Prof. Francesco Pavan

September 2015 – January 2016
(75 hours)

English Language

University of Udine, C.L.A.V (Centro Linguistico e Audiovisivi)
Advanced B2

2004 – 2007

Diploma in communication skills in English

Private language Institute: Cooperative Training Company "KISH AIR", Babol, Iran

SKILLS

Mother tongue(s) Persian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Italian	B1	B1	B1	B1	A2

Computer skills

- Efficient knowledge in office suite (word processor, spread sheet, presentation software)
- Statistical software (SPSS, Minitab)

Driving License

- B

Laboratory and research skills

- Chemical lab activities
- Ultrasound technology
- Optical spectroscopy: UV-vis
- Chromatography and separations: Gas chromatography (GC), Thin-layer chromatography (TLC), column chromatography
- Titration, Extraction
- CHNSO Elementar Analyser coupled to a stable isotope ratio mass spectrometer
- Data analysis and optimization

Publications

- Da Porto, C., Kiaeianmoosavi, S. (2024) Optimizing microwave pre-treatment of hemp (*Cannabis sativa* L.) seeds for enhanced oil yield and quality. Submitted to *Journal of Food Processing and Preservation*.
- Bigot, G., Mosetti, D., Cargnus, E., Freccero, P., Kiaeian Moosavi, F., Lujan, C., M. Stecchina, M.,

Tacoli, F., Zandigiaco, P., Sivilotti, P. and Pavan F. (2022) Influence of vineyard inter-row management and clone on 'Sauvignon Blanc' performance in Friuli Venezia Giulia (north-eastern Italy). *Vitis*, 61: 53–62.

- Kiaeian Moosavi, F., Cargnus, E., Torelli, E., Bortolomeazzi, R., Zandigiaco, P., Pavan, F. (2020) Is the existence of a mutualistic relationship between *Lobesia botrana* and *Botrytis cinerea* well-founded? *Archives of Insect Biochemistry and Physiology*, 103(4): e21655.
- Kiaeian Moosavi, F., Cargnus, E., Pavan, F., Zandigiaco, P. (2018) Effects of grapevine bunch exposure to sunlight on berry surface temperature and *Lobesia botrana* (Lepidoptera: Tortricidae) egg laying, hatching and larval settlement. *Agricultural and Forest Entomology*, 20: 420–432.
- Tacoli, F., Cargnus E., Kiaeian Moosavi, F., Zandigiaco, P., Pavan, F. (2018) Efficacy and mode of action of kaolin and its interaction with bunch-zone leaf removal against *Lobesia botrana* on grapevines. *Journal of Pest Science*, 92: 465–475.
- Kiaeian Moosavi F., Cargnus E., Pavan F., Zandigiaco P. (2017) Mortality of Eggs and Newly-hatched Larvae of *Lobesia botrana* (Lepidoptera: Tortricidae) Exposed to High Temperatures in the Laboratory. *Journal of Environmental Entomology*, 46(3): 700–707.
- Pavan F., Cargnus E., Kiaeian Moosavi F., Bigot G., Tacoli F., Zandigiaco P. (2016) Bunch-zone leaf removal of grapevines to prevent damage by *Lobesia botrana* (Lepidoptera Tortricidae) and grey mould. *Bulletin of Insectology*, 69 (1): 107–115.
- Damavandian M.R., Moosavi S.F.K. (2014) Comparison of mineral spray oil, Confidor, Dursban, and Abamectin used for the control of *Phyllocnistis citrella* (Lepidoptera: Gracillariidae), and an evaluation of the activity of this pest in citrus orchards in northern Iran. *Journal of Plant Protection Research*, 54 (2): 156–163.

Conferences

Oral presentation:

- Kiaeian Moosavi, F., Cargnus, E., Pavan, F., Tacoli F., Bigot, G., Zandigiaco, P. (2018) Cultural control of *Lobesia botrana* on grapevines. Duso C., Hoffmann Ch., Calonnec A., Fuchs R., Jermini M., Maixner M., Thiery D., Zahavi T. (eds.) *Novel tools and new challenges for IPM in viticulture*, Riva del Garda, Italy, 16-20 October 2017, *IOBC-WPRS Bulletin*, 139: 46-49.

Poster:

- Canciani M. Flagiello F., Kiaeianmoosavi S., Lodovici A., Vinci G., Pinton R., Arkoun M., Zanin L., Nicola Tomasi N. Hyperspectral Imaging as a suitable method for non-invasive Fe deficiency diagnosis in crops. Abstract presented at XLII SICA Conference 9-11 September (2024), Alghero (SS), Sardinia, Italy.
- Tacoli, F., Pavan, F., Cargnus, E., Tilatti, E., Kiaeian Moosavi, F., Pozzebon, A., Zandigiaco, P. (2017) Efficacy of kaolin against *Empoasca vitis* in vineyards. Poster presentation in “Future IPM 3.0: towards a sustainable agriculture”, Riva del Garda, Italy, 16-20 October 2017.
- Kiaeian Moosavi S.F., Tacoli F., Pavan F., Zandigiaco P. (2015) Environmentally friendly control of arthropods pests in vineyards. Poster presentation in “PhD EXPO 2015”, University of Udine, 18 June 2015.