

University Academic Curriculum Vitae

Personal information

Name: Pouloupoulou Ioanna
Free University of Bolzano, Faculty of Science and Technology, Animal Science
Address: Universitätsplatz 5 - Piazza Università 5, 39100, Bozen - Bolzano
Telephone number:
• Office: +39 0471 017746
E-Mail: ioanna.pouloupoulou@unibz.it

Education

- **2004** BSc Agronomy - Animal Science, Faculty of Animal Science and Aquaculture, Agricultural University Athens (5 years degree), Greece. **Dissertation title:** "Management interventions to improve mountain grasslands and their effects on the characteristics of grazing material".
- **2005** MSc Animal Production and Nutrition, University of Aberdeen, Scotland, UK. **Dissertation title:** "Dietary preferences in goats as influenced by the temporal pattern of food ingestion and the rate of energy delivery to the rumen".
- **2011** PhD Agricultural Sciences, Animal Science, Agricultural University Athens, Greece. Subject area: Animal Science, **Thesis title:** "Evaluation of the use of plant biomarkers in animal products identification".

Present appointment

- **Post - doctoral researcher** in the scientific sector ARG/19 at the Faculty of Science and Technology, Free University of Bolzano/Bozen, Italy
Current research activity of Dr. Ioanna Pouloupoulou in the context of the **HERBAL** research project (Herbs and Mountain Plants as an Alternative Medication for Anthelmintic Treatment in Livestock Species (Euregio Science Fund)) aims at finding alternative anthelmintic treatment for laying hens and focuses on the:
 - use of plant extracts and essential oils, found in alpine plant flora, as an alternative anthelmintic treatment for laying hens.
 - development of *in vitro* methods that use as experimental model the eggs extracted from the ovaries of the parasitic species *Ascaridia galli*.
 - prioritization and selection the plant extracts and/or essential oils that have the best performance against the eggs of the parasitic species *Ascaridia galli*.
 - *in vivo* experimentation with laying hens artificially and naturally infected with *Ascaridia galli*.

Professional experience

From / to	Job title	Name of academic Institution	Academic level	Responsibilities
January 2017 – January 2020	Researcher with a fixed term contract	Free University of Bolzano	Post - doctoral	<p>Working as a Junior University Researcher at the Free University of Bolzano the main goals of my research were:</p> <ol style="list-style-type: none"> 1) to assess and evaluate the existing livestock production systems in South Tyrol, North Italy, for different livestock species and 2) develop adaptation strategies that certify their sustainability <p>A significant part of my responsibilities were among others the assessment of health status of local cattle and small ruminant population through parasitological analysis, while, I also evaluated the performance of cattle breeds proposing strategies for improving their production performance, health and welfare.</p>
June 2014 – March 2016	Research & Development Manager	Neuropublic S.A., Greece		<p>Working as a Research and Development Manager I provided scientific evidence for cloud based farm livestock applications, assisted the R&D team in the pilot implementation of the web applications. I also informed the local cooperatives, as their COPA-COGECA and EU Commission representative, updated on current trends, practices, developments, and regulatory changes in Greek and EU livestock sector.</p>
January 2012 – April 2013	Export Manager	Kegoargi S.A., Greece (Nireus Group of companies)		<p>Working as an Export Manager I was responsible for:</p> <ol style="list-style-type: none"> 1) providing technical support to broiler and laying hens farms in Turkey and North Africa. 2) formulated poultry rations having as a goal to increase productivity and reducing feed cost to maximize efficiency
October 2005 –	Researcher on Organic	Department of Anatomy and	Post - graduate	<p>Working as a researcher, my main responsibility was</p>

December 2006	Husbandry and Nutrition "BIOAGRO" e-content no. 11293 EU project	Physiology of Farm Animals Faculty of Animal Science and Aquaculture Agricultural University of Athens, Greece		the management and production of the portal contents on issues related to Organic husbandry, nutrition and animal health.
October 2005 – December 2005	Researcher on the project "Control and Management of Health Status of Livestock"	Department of Anatomy and Physiology of Farm Animals Faculty of Animal Science and Aquaculture Agricultural University of Athens, Greece	Post graduate -	Working as a researcher, I was responsible for the management of health status of livestock small ruminant farms across Greece performing serological analysis.

Other academic responsibilities

- **2019 Thesis co- supervision, Supervisor:** Professor Matthias Gauly, **Co-supervisor:** Ioanna Pouloupoulou. **BSc thesis:** „Üntersuchung zur Fleischqualität von Wagyu-Rindern in Südtirol“, Faculty of Science and Technology, Free University of Bolzano, Italy.

Other academic responsibilities (past appointments)

Academic teaching

- **October 2009 – January 2010** Teaching Assistant of "Introduction to Biochemistry", 3rd semester of undergraduate studies, Department of Nutritional Physiology and Feeding, Faculty of Animal Science and Aquaculture, Agricultural University of Athens, Greece.
- **October 2008 – January 2009** Teaching Assistant of "Introduction to Biochemistry", 3rd semester of undergraduate studies, Department of Nutritional Physiology and Feeding, Faculty of Animal Science and Aquaculture, Agricultural University of Athens, Greece.
- **October 2007 – January 2008** Teaching Assistant of "Introduction to Biochemistry", 3rd semester of undergraduate studies, Department of Nutritional Physiology and Feeding, Faculty of Animal Science and Aquaculture, Agricultural University of Athens, Greece.

Thesis assistance

- **2008** Assistance during experiments, drafting and writing for the thesis entitled: "Study of physicochemical characteristics of goat's milk after terpene administration to animals", Department of Dairy Research, Faculty of Food Science and Human nutrition, Agricultural University of Athens.
- **2009** Assistance during experiments, drafting and writing for the thesis of entitled: "Study of physicochemical characteristics of sheep milk after terpene administration to animals", Department of Dairy Research, Faculty of Food Science and Human nutrition, Agricultural University of Athens.

Other scientific responsibilities	<ul style="list-style-type: none"> • 2020 – 2023 Secretary of the EAAP Study Commission Livestock farming Systems
Organization of conference	<ul style="list-style-type: none"> • 2018 Conference organizing committee - 1st European Symposium on Livestock Farming in Mountain Areas, 20 – 22 June 2018, Bolzano, Italy.
Other appointments	<ul style="list-style-type: none"> • 2015 - 2016 Expert on Copa Cogeca Working Party (WP), Commission Civil Dial Group on Animal Products (Milk and Dairy Products and Sheep and Goat Meat), Brussels, Belgium. • 2015 - 2016 Expert on European Commission Forecast Working Group on Poultry and Eggs, Brussels, Belgium.
Memberships	<ul style="list-style-type: none"> • Member of the Hellenic Society of Animal production (HSAP). • Member of the European Federation of Animal Production (EAAP).
Previous research summary	<p>Previous research activity of Dr. Ioanna Pouloupoulou focused on the</p> <ul style="list-style-type: none"> • recording and evaluation of the current animal production systems in South Tyrol (Northern Italy). • parameters that affect labour inputs in mountain farms and proposed methods aimed at improving the productivity of livestock units. • estimation of level of the health and welfare of goats, sheep and cattle and how alterations in those parameters might affect animals' production performance and the sustainability of livestock farms in the mountain areas. • prevalence of endoparasitic infection using the modified McMaster technique (Faecal Egg Count Reduction Test (FECRT)) as well as the larval migration inhibition test, (LMIT). In addition, their prevalence of endoparasitic infections in the area was recorded. Taking my initial research focus a step further, I investigated additional factors affecting the health and welfare of farm animals, using • use of automatic sensors, that record grazing and locomotion behaviour aiming at the early detection of diseases. • use of video recording system, and behavioural analysis software (Behavior Research Mangold - Interact 15). • development of a benchmarking system that uses different welfare indicators, algorithms and smart technologies in order to create a representative score of the level of health and welfare of livestock farms was developed.
Significant achievements in scholarships	<ul style="list-style-type: none"> • Dr. Ioanna Pouloupoulou has gained two PhD scholarships awards from the Greek State Scholarship Foundation through exams where she was ranked first in the list and from the Ministry of Education for her PhD research theme. The total amount was 28.900 €.

Date granted	Award Holder(s)	Funding Body	Title	Amount received
01/01/2007	PhD	State Scholarship Foundation	Nutrition and Quality of Animal Products	18.900 €
2009	PhD	Ministry of Education		10.000 €

Publications

1. **Poulopoulou I.**, Hadjigeorgiou I. 2020. Evaluation of Terpenes' Degradation Rates by Rumen Fluid of Adapted and Non-adapted Animals. *Natural Products and Bioprospecting*. Open access. DOI: 10.1007/s13659-020-00289-3 (Impact factor 1.10)
2. **Poulopoulou I.**, Zoidis E., Avramidou S., Massouras T., Hadjigeorgiou I. 2019. Effects of terpenes administration on fatty acid profile and coagulation properties of ewes' milk. *Emirates Journal of Food and Agriculture* 31 (12), 980 - 985. DOI: 10.9755/ejfa.2019.v31.i12.2048 (Impact factor 1.10).
3. Lambertz C., **Poulopoulou I.**, Wuthijaree K., Gauly M. 2019. Anthelmintic resistance in gastrointestinal nematodes in sheep raised under mountain farming conditions in Northern Italy. *Veterinary Record Open*. DOI: 10.1136/vetreco-2018-000332 (Impact factor 1.79).
4. Lambertz C., **Poulopoulou I.**, Wuthijaree K., Gauly M. 2019. Anthelmintic efficacy against gastrointestinal nematodes in goats raised under mountain farming conditions in northern Italy. *BMC Veterinary Research* 15: 216. DOI: 10.1186/s12917-019-1968-8 (Impact factor 1.82).
5. **Poulopoulou I.**, Lambertz C., Gauly M. 2019. Are automated sensors a reliable tool to estimate behavioural activities in grazing beef cattle? *Applied Animal Behaviour Science* 216, 1-5. DOI: 10.1016/j.applanim.2019.04.009 (Impact factor 2.19).
6. **Poulopoulou I.**, Eggemann A., Moors E., Lambertz C., Gauly M. 2018. Does feeding frequency during lactation affect sows' body condition, reproduction and production performance? *Animal Science Journal* 89 (11), 1591-1598. DOI: 10.1111/asj.13103 (Impact factor 1.40).
7. Zoidis E., **Poulopoulou I.**, Tsoufi V., Massouras T., Hadjigeorgiou I. 2018. Effects of terpene administration on goats' milk fatty acid profile and coagulation properties. *International Journal of Dairy Technology* 71 (4), 992 - 996. DOI: 10.1111/1471-0307.12529 (Impact factor 1.64).
8. Lambertz C., **Poulopoulou I.**, Wuthijaree K., Gauly M. 2018. Endoparasitic infections and prevention measures in sheep and goats under mountain farming conditions in Northern Italy. *Small Ruminant Research* 164, 94 -101. DOI: 10.1016/j.smallrumres.2018.05.007 (Impact factor 1.27).
9. **Poulopoulou I.**, Nock M.C., Steinmayer S., Lambertz C., Gauly M. 2017. How can working time analysis contribute to the production efficiency of dairy farms in mountain regions? *Italian Journal of Animal Science* 17 (2), DOI: 10.1080/1828051X.2017.1363638 (Impact factor 1.81).
10. **Poulopoulou I.**, Chatzipapadopoulos F. 2015. Saving resources using a cloud livestock farm management tool. *European Conference on Precision Livestock Farming, Proceedings*, 276 - 283.
11. **Poulopoulou I.**, Zoidis E., Massouras T., Hadjigeorgiou I. 2012. Transfer of orally administered terpenes in goat milk and cheese. *Asian Australian Journal of Animal Sciences* 25 (10): 1411-1418. DOI:10.5713/ajas.2012.12165 (Impact factor 1.23).
12. **Poulopoulou I.**, Zoidis E., Massouras T., Hadjigeorgiou I. 2011.

Terpenes transfer to milk and cheese after oral administration to sheep fed indoors. *Animal Physiology and Animal Nutrition* 96(2):172 - 181. DOI:10.1111/j.1439-0396.2011.01128 (Impact factor 1.60).

13. Duncan A.J., Elwert C., Villalba J.J., Yearsley J., **Poulopoulou I.**, Gordon I.J. 2007. How does pattern of feeding and rate of nutrient delivery influence conditioned food preferences? *Oecologia* 153 (3):617-624. DOI: 10.1007/s00442-007-0771-6 (Impact factor 3.01).

Scopus database (last access 25.05.2021)

Number of records: 13

Number of citations: 69

h-index: 5

Presentations in scientific conference (last 3 years)

1. **Poulopoulou I.**, Lambertz C., Wuthijaree K., Gaulty M. 2020. Anthelmintic resistance in gastrointestinal nematodes of sheep raised in mountain farming conditions. Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science (EAAP), Wageningen Academic Publishers. Virtual Meeting, 01–04.12.2020.
2. **Poulopoulou I.**, Lambertz C., Wuthijaree K., Gaulty M. 2020. Anthelmintic efficacy in gastrointestinal nematodes of goats raised in South Tyrol. Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science (EAAP), Wageningen Academic Publishers. Virtual Meeting, 01–04.12.2020.
3. **Poulopoulou I.**, Lambertz C., Gaulty M. 2019. Comparative study on production traits between dual-purpose and dairy breeds in South Tyrol. Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science (EAAP), Wageningen Academic Publishers. 26.08 – 30.08.2019 Ghent, Belgium.
4. **Poulopoulou I.**, Nock M.C., Steinmayer S., Lambertz C., Gaulty M. 2018. Evaluating working time of mountain dairy farms – A step towards production efficiency. 1st European Symposium on Livestock Farming in Mountain Areas, 20-22.06.2018, Bolzano, Italy.
5. **Poulopoulou I.**, Nock M.C., Steinmayer S., Lambertz C., Gaulty M. 2017. Working time requirement in smallholder dairy farms: A comparison of tie-stall and loose-housing barns. DGfZ Tagung 20-21.09.2017, Hohenheim, Germany.
6. Flach L., Lambertz C., **Poulopoulou I.**, Gaulty M. 2017. Endoparasites in sheep and goats: prevalence and control strategies of mountain farms in Italy. Book of Abstracts of the 68th Annual Meeting of the European Federation of Animal Science (EAAP), Wageningen Academic Publishers. 28.08 – 01.09.2017 Tallinn, Estonia.
7. **Poulopoulou I.**, Nock M.C., Steinmayer S., Lambertz C., Gaulty M. 2017. Working time analysis of mountainous dairy farms. Book of Abstracts of the 68th Annual Meeting of the European Federation for Animal Production (EAAP), Wageningen Academic Publishers. 28.08 – 01.09.2017 Tallinn, Estonia.
8. **Poulopoulou I.**, Nock M.C., Steinmayer S., Lambertz C., Gaulty M. 2017. How can working time analysis contribute to the production efficiency of mountain dairy farms? ASPA 22nd Congress, 13–16.06.2017, Perugia, Italy.
9. Lambertz C., **Poulopoulou I.**, Gaulty M. 2017. Endoparasites in sheep and goats: prevalence and control strategies of mountain farms in Northern Italy? ASPA 22nd Congress, 13–16.06.2017, Perugia, Italy.

Training/Internship

- **January 2012** Aviagen Ltd, Edinburgh, Scotland, Training on nutrition ration of broiler parent stock for different growth stages, genetics, poultry farm management and client support.
- **March 2005 – July 2005** The James Hutton Institute (Former: Macaulay Land Use Research Institute) Aberdeen, Scotland, UK. Fieldwork: collecting conifer samples for feeding trials, analysis of PSM using Gas chromatography (GC).

Laboratory Experience

- **January 2017 – present** Faculty of Science and Technology, Free University of Bolzano, Italy
 - Faecal egg count (FEC) technique (McMaster) for the diagnosis of parasitic infections in livestock
 - Larval migration inhibition test (LMIT)
 - *In-vitro* cultivation of parasitic eggs
 - Behavioural analysis programme (Behavior Research Mangold - Interact 15).
 - Meat quality determination using calorimetry (CIELAB)
- **January 2007 – January 2010** Laboratory of Dairy Research, Faculty of Food Science and Human Nutrition, Agricultural University of Athens, Greece
 - Solid Phase micro-extraction Method (**SPME**) of blood, milk and cheese samples
 - Gas Chromatography/Mass spectrometry (**GC-MS**) of blood, milk and cheese samples
- **January 2009 – March 2010** Laboratory of Anatomy and Physiology of Farm Animals, Agricultural University of Athens, Greece
 - In vitro MTT (methylthiazolyldiphenyl-tetrazole) reduction assay
- **March 2005 – July 2005** The James Hutton Institute, Aberdeen, Scotland, UK
 - *In vitro* gas production assay
 - Gas chromatography (GC) for PSM determination
- **July 2003 – August 2003, July 2002 – August 2002** Laboratory of Nutritional Physiology and Feeding Agricultural University of Athens, Greece.
 - Proximate analysis of feeding stuffs (Weende) και Near-Infrared Spectroscopy (NIRS) for the estimation of moisture, ash, protein, fats and carbohydrates.

Other skills

Programming languages: SAS, R, Fortran 77
 Statistical packages: SPSS, Statgraphics, Minitab, Genstat
 ECDL Progress Certificate (European Computer Driving License)
 ECDL Core Module 03: Word Processing
 ECDL Core Module 04: Spreadsheets
 ECDL Core Module 07: Information and Communication

Language competence

Mother tongue Greek

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German (Goethe Zertifikat)	B2	B2	B2	B2	B2