Laura Ozella, Ph.D.

Nationality: Italian
Gender: Female

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Current Position

31/10/2022 – ongoing	**Researcher (RTD-B)** Department of Veterinary Science, University of Turin, Italy AGR/19

Previous Positions

01/06/2021 – 30/10/2022	**Research Grant** Department of Veterinary Science, University of Turin, Italy Data Analysis and Modeling Unit Project: *Development of statistical and computational approaches in the analysis of zootechnical data*
01/03/2016 - 30/04/2021	**Researcher** ISI Foundation (Institute for the Scientific Interchange), Turin, Italy Data Science Laboratory
01/01/2019 - 31/12/2021	**Honorary Research Fellow** College of Life and Environmental Sciences, University of Exeter, UK Environment and Sustainability Institute (Penryn Campus) Centre for Research into Animal Behaviour (Exeter Campus)
01/03/2016 - 28/02/2017	**Honorary Research Fellow** College of Life and Environmental Sciences, University of Exeter, UK Environment and Sustainability Institute (Penryn Campus) Centre for Research into Animal Behaviour (Exeter Campus)

Education

03/03/2016	**Ph.D. in Biology and Applied Biotechnologies** Department of Life Sciences and Systems Biology, University of Turin, Italy Doctoral School in Science and Innovative Technologies Thesis title: *Welfare and behaviour of African Penguin held in captivity*
15/11/2015 - 15/12/2015	**Visiting Ph.D. Student at Nottingham Trent University (NTU)** School of Animal Rural and Environmental Sciences Nottingham Trent University (NTU), Nottingham, UK

Education (continued)

15/10/2012	**Master's degree in Evolution of Animal and Human Behavior**
	Department of Life Sciences and Systems Biology, University of Turin, Italy
	Thesis title: *Welfare of the domestic dog employed in Animal Assisted Activities*
	Vote: 110/110 *cum laude*

30/11/2006	**2nd level University Master degree in Clinical Behavioral diseases in dogs and cats**
	Department of of Veterinary Sciences, University of Turin, Italy
	Thesis title: *Effects of human-animal interaction on welfare of dogs kept in an animal shelter*
	Vote: 110/110

24/02/2000	**Master's degree in Veterinary Medicine**
	Department of of Veterinary Sciences, University of Turin, Italy
	Thesis title: *Serological diagnosis from lung tissue extracts*
	Vote: 108/110

01/02/1999 - 01/02/2000	**Erasmus grant (12 months)**
	Faculty of Veterinary Medicine of Zaragoza, University of Zaragoza, Spain

Publications in indexed journals

Source: SCOPUS at June 2023

1. Brotto Rebuli K., **Ozella, L.**, Vanneschi L., Giacobini M. (2023) Multi-Algorithm Clustering Analysis for Characterizing Cow Productivity on Automatic Milking Systems Over Lactation Periods *Computers and Electronics in Agricolture*. In Press

2. **Ozella, L.**, Brotto Rebuli K., Forte C., Giacobini M. (2023) A Literature Review of Modeling Approaches Applied to Data Collected in Automatic Milking Systems. *Animals*, 13(12), 1916. DOI: 10.3390/ani13121916

3. Lewis K.E., Price E., Croft D.P., Green L.E., **Ozella, L.**, Cattuto C., Langford J. (2023) Potential role of biologgers to automate detection of lame ewes and lambs. *Applied Animal Behaviour Science*, 259, 105847. DOI: 10.1016/j.applanim.2023.105847

4. Mauri D., Bonelli S., **Ozella, L.** (2022) The "Second Life" of laboratory rats (Rattus norvegicus): Assessment of social behavior of a colony of rats based on social network analysis. *Journal of Applied Animal Welfare Science*. DOI: 10.1080/10888705.2022.2132826

5. Lewis K.E., Price E., Croft D.P., Langford J., **Ozella, L.**, Cattuto C., Green L.E. (2022) Social behaviour and transmission of lameness in a flock of ewes and lambs. *Frontiers in Veterinary Medicine*, 9, 1027020. DOI: 10.3389/fvets.2022.1027020

6. **Ozella, L.**, Price, E., Langford, J., Lewis, K. E., Cattuto, C., Croft, D. P. (2022). Association networks and social temporal dynamics in ewes and lambs. *Applied Animal Behaviour Science*, 246, 105515. DOI: 10.1016/j.applanim.2021.105515

7. Goodwin, C. E., Léchenne, M., Wilson-Aggarwal, J. K., Koumetio, S. M., Swan, G. J., Moundai, T., **Ozella, L.**, McDonald, R. A. (2022). Seasonal fishery facilitates a novel transmission pathway in an emerging animal reservoir of Guinea worm. *Current Biology*, 32(4), 775-782. DOI: 10.1016/j.cub.2021.11.050

8. Fielding, H. R., Silk, M. J., McKinley, T. J., Delahay, R. J., Wilson-Aggarwal, J. K., Gauvin, L., **Ozella, L.**, Cattuto, C., McDonald, R. A. (2021). Spatial and temporal variation in proximity networks of

commercial dairy cattle in Great Britain. *Preventive veterinary medicine*, 194, 105443. DOI: 10.1016/j.prevetmed.2021.105443

9. **Ozella, L.**, Paolotti, D., Lichand, G., Rodríguez, J. P., Haenni, S., Phuka, J., Leal-Neto, O.B., Cattuto, C. (2021). Using wearable proximity sensors to characterize social contact patterns in a village of rural Malawi. *EPJ Data Science*, 10(1), 46. DOI: 10.1140/epjds/s13688-021-00302-w

10. Leal-Neto, O.B., Haenni, S., Phuka, J., **Ozella, L.**, Paolotti, D., Cattuto, C., Robles, D., Lichand, G. (2021). Combining wearable devices and mobile surveys to study child and youth development in Malawi: implementation study of a multimodal approach. *JMIR Public Health and Surveillance*, 7(3), e23154. DOI:10.2196/23154

11. **Ozella, L.**, Langford, J., Gauvin, L., Price, E., Cattuto, C., Croft, D. P. (2020). The effect of age, environment and management on social contact patterns in sheep. *Applied Animal Behaviour Science*, 225, 104964. DOI: 10.1016/j.applanim.2020.104964

12. Wilson-Aggarwal, J. K., **Ozella, L.**, Tizzoni, M., Cattuto, C., Swan, G. J., Moundai, T., Silk, M.J., Zingeser, J.A., McDonald, R. A. (2019). High-resolution contact networks of free-ranging domestic dogs Canis familiaris and implications for transmission of infection. *PLoS neglected tropical diseases*, 13(7), e0007565. DOI: 10.1371/journal.pntd.0007565

13. **Ozella, L.**, Gauvin, L., Carenzo, L., Quaggiotto, M., Ingrassia, P. L., Tizzoni, M., Panisson, A., Colombo, D., Sapienza, A., Kalimeri, K., Della Corte, F., Cattuto, C. (2019). Wearable proximity sensors for monitoring a mass casualty incident exercise: feasibility study. *Journal of medical internet research*, 21(4), e12251. DOI: 10.2196/12251

14. **Ozella, L.**, Gesualdo, F., Tizzoni, M., Rizzo, C., Pandolfi, E., Campagna, I., Tozzi, A.E., Cattuto, C. (2018). Close encounters between infants and household members measured through wearable proximity sensors. *PLoS one*, 13(6), e0198733. DOI: 10.1371/journal.pone.0198733

15. **Ozella, L.**, Anfossi, L., Di Nardo, F., Pessani, D. (2017). Effect of weather conditions and presence of visitors on adrenocortical activity in captive African penguins (Spheniscus demersus). *General and comparative endocrinology*, 242, 49-58. DOI: 10.1016/j.ygcen.2015.12.002

16. **Ozella, L.**, Cecchetti, M., Pessani, D. (2016). Diet of feral cats during the Scopoli's shearwater breeding season on Linosa Island, Mediterranean Sea. *Italian Journal of Zoology*, 83(4), 589-599. DOI: 10.1080/11250003.2016.1237562

17. Di Nardo, F., Anfossi, L., **Ozella, L.**, Saccani, A., Giovannoli, C., Spano, G., Baggiani, C. (2016). Validation of a qualitative immunochromatographic test for the noninvasive assessment of stress in dogs. *Journal of Chromatography B*, 1028, 192-198. DOI: 10.1016/j.jchromb.2016.06.019

18. **Ozella, L.**, Anfossi, L., Di Nardo, F., Pessani, D. (2015). Non-invasive monitoring of adrenocortical activity in captive African Penguin (Spheniscus demersus) by measuring faecal glucocorticoid metabolites. *General and Comparative Endocrinology*, 224, 104-112. DOI: 10.1016/j.ygcen.2015.06.014

19. **Ozella, L.**, Favaro, L., Carnovale, I., Pessani, D. (2015). Pond use by captive African penguins (Spheniscus demersus) in an immersive exhibit adjacent to human bathers. *Journal of Applied Animal Welfare Science*, 18(3), 303-309. DOI: 10.1080/10888705.2014.977384

20. Favaro, L., **Ozella, L.**, Pessani, D. (2014). The vocal repertoire of the African Penguin (Spheniscus demersus): structure and function of calls. *PLoS one*, 9(7), e103460. DOI: 10.1371/journal.pone.0103460

21. Anfossi, L., **Ozella, L.**, Di Nardo, F., Giovannoli, C., Passini, C., Favaro, L., Pessani, D., Mostl, E., Baggiani, C. (2014). A broad-selective enzyme immunoassay for non-invasive stress assessment in African penguins (Spheniscus demersus) held in captivity. *Analytical Methods*, 6(20), 8222-8231. DOI: 10.1039/C4AY01407C

22. Bergamasco, L., Osella, M. C., Savarino, P., Larosa, G., **Ozella, L.**, Manassero, M., Badino, P., Odore, R., Barbero, R., Re, G. (2010). Heart rate variability and saliva cortisol assessment in shelter dog: Human–animal interaction effects. *Applied animal behaviour science*, 125(1-2), 56-68. DOI: 10.1016/j.applanim.2010.03.002

Conferences

2023   **Ozella L.** et al. A computer vision approach for the automatic detection of social interactions and space-usage of dairy cows. *IEEE Measuremnets and applications on veterinary and Animal Sciences - MeAVeAS 2023*. 26 - 28 April 2023, Napoli, Italia. Oral Presentation

Diaz Vicuna E., Anfossi L., Di Nardo F., Forte C., **Ozella L.**. CortiCow project: development of a rapid and non-invasive Lateral Flow Immunoassay for the evaluation of cortisol levels in bovine saliva. *IEEE Measuremnets and applications on veterinary and Animal Sciences - MeAVeAS 2023*. 26 - 28 April 2023, Napoli, Italia. Oral Presentation

Fiorilla E., **Ozella L.** et al. Behavioral observations of two local chicken breeds, their crossbreeds and one commercial hybrid in different rearing systems. *IEEE Measuremnets and applications on veterinary and Animal Sciences - MeAVeAS 2023*. 26 - 28 April 2023, Napoli, Italia. Oral Presentation

Raspa F., Valle E., Necci A., **Ozella L.** et al. On-farm and On-pasture Welfare Measurement Protocol for Horses. *IEEE Measuremnets and applications on veterinary and Animal Sciences - MeAVeAS 2023*. 26 - 28 April 2023, Napoli, Italia. Oral Presentation

2022   **Ozella L.** et al. A computer vision approach for the automatic detection of social interactions and space-usage of dairy cows. *International Conference on Precision Dairy Farming (PDC)*. 29 August - 2 September 2022, Vienna, Austria. Oral Presentation

Brotto Rebuli K., **Ozella L.** et al. Comparison of clustering analysis methods in assessment of productivity parameters in dairy cows milked by Automatic Milking Systems. *International Conference on Precision Dairy Farming (PDC)*. 29 August - 2 September 2022, Vienna, Austria. Oral Presentation

Leso L., **Ozella L.** et al. Validation of proximity sensors to monitor the social behavior of dairy cows: a pilot study. *International Conference on Precision Dairy Farming (ECPLF)*. 29 August - 2 September 2022, Vienna, Austria. Oral Presentation

2020   **Ozella L.** et al. Social contact patterns in a village of rural Malawi and implication for disease transmission. *International Conference on Network Science Netsci 2020*, On-line. Oral Presentation

2021   Lewis K.E., Croft D.P., Langford J., **Ozella L.** et al. Investigating relationships between network centrality and transmission of lameness in a UK sheep flock using mixed effects models *Early-career Social Learning Researchers (ESLR) Conference*, On-line. Poster

2019   Rodriguez J.P., Kleynhans J., **Ozella L.** et al. Structure and dynamics of contact patterns among structured populations in South Africa. *International Conference on Complex Systems CCS2019*, 30 September - 4 October. Nanyang, Singapore. Oral Presentation

Conferences (continued)

2018   ▪ **Ozella L.** et al. Animal social networks relevant to disease transmission among free-roaming dogs in Chad. *BIFI International Conference 2018, Complexity, Networks and Collective Behaviour*, 6 – 8 February 2018, Zaragoza, Spain. Oral Presentation

       ▪ **Ozella L.** et al. Animal social networks relevant to disease transmission among free-roaming dogs in Chad. *International Conference on Network Science Netsci 2018*, 11 – 15 June 2018, Paris, France. Oral Presentation

       ▪ **Ozella L.** et al. Close encounters between infants and household members measured through wearable proximity sensors. *International Conference on Network Science Netsci 2018*, 11 – 15 June 2018, Paris, France. Oral Presentation

2017   ▪ **Ozella L.** et al. Animal social networks relevant to disease transmission among free-roaming dogs in Chad. *11th International Conference on Behaviour, Physiology and Genetics of Wildlife*. 4 – 7 October 2017, Berlin, Germany. Poster

       ▪ **Ozella L.** et al. Animal social networks relevant to disease transmission among free-roaming dogs in Chad. *International Conference on Complex Systems CCS2017*. 17 – 22 September 2017, Cancun, Mexico. Oral Presentation

2015   ▪ **Ozella L.** et al. Effect of weather conditions and visitors presence on adrenocortical activity in captive African Penguin (Spheniscus demersus). *10th International Conference on Behaviour, Physiology and Genetics of Wildlife*. 28 September – 1 October 2015, Berlin, Germany. Oral Presentation

       ▪ Anfossi L., Di Nardo F., Giovannoli C., **Ozella L.** et al. Non-invasive stress assessment in dogs by measuring cortisol saliva. *XXV Congresso di Chimica Analitica*. 13-17 settembre 2015, Trieste, Italia. Poster

       ▪ Cecchetti M., **Ozella L.** et al. Feeding ecology of feral cats (Felis silvestris catus) in in relation to conservation of Scopoli's shearwater (Calonectris diomedea). *XXVI Convegno Nazionale della Società Italiana di Etologia*. 24-26 giugno 2015, Parma, Italia. Poster

2014   ▪ **Ozella L.** et al. Faecal Glucocorticoid Metabolites in African Penguins: Biological Validation of an enzyme immunoassay. *6th International Conference on the Assessment of Animal Welfare at Farm and Group Level*. September 3-5 2014. Clermont-Ferrand, France. Poster

       ▪ **Ozella L.** et al. Gat.TO Project: Analysis and monitoring of feral cats (Felis silvestris catus) and their caretakers in the city of Turin (Italy). *75° Congresso Nazionale dell'Unione Zoologica Italiana* 22-25 Settembre 2014. Bari, Italia. Poster

2013   ▪ **Ozella L.** et al. Introduction of a group of African penguin (Spheniscus demersus) in a new exhibit: behaviour and visitor effect. *8th International Penguin Conference* 2-6 September 2013. Bristol, UK. Poster

       ▪ **Ozella L.** et al. Introduction of a group of African penguin (Spheniscus demersus) in a new exhibit: behaviour and visitor effect. *74° Congresso Nazionale dell'Unione Zoologica Italiana*. 30 settembre-3 ottobre 2013. Modena, Italia. Oral Presentation

Conferences (continued)

2007   ▪   **Ozella L.** et al. Effects of human-animal interaction on the behaviour and welfare of dogs kept in animal shelter of Turin, Italy. *56° Congresso internazionale Società Culturale Italiana Veterinari per Animali da Compagnia, 2007*. Rimini, Italia. Oral Presentation

Ongoing Collaborations

from 2021   ▪   **Development of statistical and computational approaches in the analysis of zootechnical data**
Department of Veterinary Sciences, University of Turin, Italy (Operative Unit)
Project funded by Compagnia di San Paolo

                 ▪   Conference presentations derived from the project:
"Comparison of clustering analysis methods in assessment of productivity parameters in dairy cows milked by Automatic Milking Systems" at *International Conference on Precision Dairy Farming (PDC)* and *Annual Meeting of European Federation of Animal Science*

from 2021   ▪   **Development of computer vision approach for the automatic detection of social interactions and space-usage of dairy cows**
Department of Veterinary Sciences, University of Turin, Italy
Department of Computer Science, University of Turin, Italy

                 ▪   Conference presentations derived from the project:
"A computer vision approach for the automatic detection of social interactions and space-usage of dairy cows" at *International Conference on Precision Dairy Farming (PDC)* and *Annual Meeting of European Federation of Animal Science*

from 2022   ▪   **Non-invasive assessment of stress in cattle**
Department of Veterinary Sciences, University of Turin, Italy
Department of Chemistry, University of Turin, Italy

from 2021   ▪   **Monitoring of the social behavior of dairy cows through the use of proximity sensors**
Department of Veterinary Sciences, University of Turin, Italy (Operative Unit)
Department of Agricultural, Food, Environmental and Forestry Sciences and Technologies (DAGRI) of the University of Florence, Italy (Coordinator)
Project funded by PRIN 2017 (Smart Dairy Farming – innovative solutions for herd management)

                 ▪   Conference presentation derived from the project:
"Validation of proximity sensors to monitor the social behavior of dairy cows: a pilot study" at *International Conference on Precision Dairy Farming (ECPLF)*

from 2018   ▪   **Monitoring of the social contact network of cattle through the use of proximity sensors and implication of Tubercolosis transmission**
Department of Veterinary Sciences, University of Turin, Italy (Operative Unit)
Environment and Sustainability Institute, University of Exeter, UK (Coordinator)
Project funded by Biotechnology and Biological Sciences Research Council (UK)

Publication in indexed journal derived from the project:
Fielding, Silk, McKinley, Delahay, Wilson-Aggarwal, **Ozella et al. (2021)**. Spatial and temporal variation in proximity networks of commercial dairy cattle in Great Britain. *Preventive veterinary medicine*, 194, 105443. DOI: 10.1016/j.prevetmed.2021.105443

from 2016 **Using bio-logging (i.e., proximity sensors and accelerometers) to improve sheep health, welfare and production in the UK**
Department of Veterinary Sciences, University of Turin, Italy (Operative Unit)
Centre for Research into Animal Behaviour, University of Exeter, UK (Coordinator)
Project funded by Biotechnology and Biological Sciences Research Council (UK)

Publications in indexed journal derived from the project:
Ozella et al. (2022) Association networks and social temporal dynamics in ewes and lambs. *Applied Animal Behaviour Science*, 246, 105515. DOI: 10.1016/j.applanim.2021.105515
Ozella et al. (2020) The effect of age, environment and management on social contact patterns in sheep. *Applied Animal Behaviour Science*, 225, 104964. DOI: 10.1016/j.applanim.2020.104964

Conference presentation derived from the project:
"Investigating relationships between network centrality and transmission of lameness in a UK sheep flock using mixed effects models" at *Early-career Social Learning Researchers (ESLR) Conference*

from 2016 **Ecology and epidemiology of domestic dogs in relation to Guinea worm and Rabies infection in Chad**
Department of Veterinary Sciences, University of Turin, Italy (Operative Unit)
College of Life and Environmental Sciences, University of Exeter, UK (Coordinator)
Project funded by The Carter Center (USA) and the Natural Environment Research Council (UK)

Publications in indexed journal derived from the project:
Goodwin, Léchenne, Wilson-Aggarwal, Koumetio, Swan, Moundai, **Ozella et al. (2022)** Seasonal fishery facilitates a novel transmission pathway in an emerging animal reservoir of Guinea worm. *Current Biology*, 32(4), 775-782. DOI: 10.1016/j.cub.2021.11.050
Wilson-Aggarwal, **Ozella et al. (2019)** High-resolution contact networks of free-ranging domestic dogs Canis familiaris and implications for transmission of infection. *PLoS neglected tropical diseases*, 13(7), e0007565. DOI: 10.1371/journal.pntd.0007565

Conference presentations derived from the project:
"Animal social networks relevant to disease transmission among free-roaming dogs in Chad" at *BIFI International Conference 2018, Complexity, Networks and Collective Behaviour, International Conference on Network Science Netsci 2018*, and *International Conference on Complex Systems CCS2017*

Previous Collaborations

2020 - 2021   **Monitoring of the social contact network of horses through the use of proximity sensors as an indicator of welfare**
ISI Foundation, Turin, Italy
University of Veterinary Medicine, Vienna, Austria

2019 - 2021   **Use of proximity sensors to monitor social contact patterns in villages of rural Malawi**
ISI Foundation, Turin, Italy
Center for Child Well-being and Development, Department of Economics, University of Zurich, Switzerland
UNICEF (United Nations Children's Fund) Malawi
College of Medicine, Lilongwe, Malawi

    Publications in indexed journal derived from the project:
Ozella et al. (2021) Using wearable proximity sensors to characterize social contact patterns in a village of rural Malawi. *EPJ Data Science*, 10(1), 46. DOI: 10.1140/epjds/s13688-021-00302-w
Leal-Neto, Haenni, Phuka, **Ozella et al. (2021)** Combining wearable devices and mobile surveys to study child and youth development in Malawi: implementation study of a multimodal approach. *JMIR Public Health and Surveillance*, 7(3), e23154. DOI:10.2196/23154

2016 - 2021   **Contact networks and infectious disease dynamics in villages of rural areas of Africa**
ISI Foundation, Turin, Italy
Bocconi University of Milan, Italy
National Institute for Communicable Diseases (NICD) of Johannesburg, South Africa
KEMRI-Wellcome Trust research program

2017 - 2019   **Proximity technology to assess patients flow and interactions in hospitals**
ISI Foundation, Turin, Italy
Center for Research and Training in Disaster Medicine, Humanitarian Aid, and Global Health, University of Eastern Piedmont

    Publication in indexed journal derived from the project:
Ozella et al. (2019) Wearable proximity sensors for monitoring a mass casualty incident exercise: feasibility study. *Journal of medical internet research*, 21(4), e12251. DOI: 10.2196/12251

2016 - 2018   **Proximity technology to assess patients flow and interactions in hospitals**
ISI Foundation, Turin, Italy (Operative Unit)
Innovation and Clinical Pathways Unit, Bambino Gesù Children's Hospital IRCCS, Rome, Italy (Coordinator)
Project funded by the Italian Ministry of Health

    Publication in indexed journal derived from the project:
Ozella et al. (2018) Close encounters between infants and household members measured through wearable proximity sensors. *PloS one*, 13(6), e0198733. DOI: 10.1371/journal.pone.0198733

    ▪ Conference presentations derived from the project:
"Close encounters between infants and household members measured through wearable proximity sensors" at *International Conference on Network Science Netsci 2018*

2014 - 2016   ▪ **Non-invasive assessment of stress in domestic dogs**
Department of Life Sciences and Systems Biology, University of Turin, Italy
Department of Chemistry, University of Turin, Italy

    ▪ Publication in indexed journal derived from the project:
Di Nardo, Anfossi, **Ozella et al. (2016)** Validation of a qualitative immunochromatographic test for the noninvasive assessment of stress in dogs. *Journal of Chromatography B*, 1028, 192-198. DOI: 10.1016/j.jchromb.2016.06.019

    ▪ Conference presentation derived from the project:
"Non-invasive stress assessment in dogs by measuring cortisol saliva" at *XXV Congresso di Chimica Analitica*

2014 - 2016   ▪ **Feeding behaviour of feral cats during the scopoli's shearwater breeding season on Linosa island, mediterranean sea**
Department of Life Sciences and Systems Biology, University of Turin, Italy

    ▪ Publication in indexed journal derived from the project:
Ozella et al. (2016) Diet of feral cats during the Scopoli's shearwater breeding season on Linosa Island, Mediterranean Sea. *Italian Journal of Zoology*, 83(4), 589-599. DOI: 10.1080/11250003.2016.1237562

    ▪ Conference presentation derived from the project:
"Feeding ecology of feral cats (Felis silvestris catus) in in relation to conservation of Scopoli's shearwater (Calonectris diomedea)" at *XXVI Convegno Nazionale della Società Italiana di Etologia*

2013 - 2016   ▪ **Welfare and behaviour of feral cats in the city of Turin**
Department of Life Sciences and Systems Biology, University of Turin, Italy

    ▪ Conference presentation derived from the project:
"Gat.TO Project: Analysis and monitoring of feral cats (Felis silvestris catus) and their caretakers in the city of Turin (Italy)" at *75° Congresso Nazionale dell'Unione Zoologica Italiana*

2013 - 2016   ▪ **Welfare and behaviour of african penguins held in captivity**
Department of Life Sciences and Systems Biology, University of Turin, Italy
Department of Chemistry, University of Turin, Italy
University of Veterinary Medicine, Vienna, Austria

Previous Collaborations (continued)

▢ Publications in indexed journal derived from the project:

Ozella et al. (2017) Effect of weather conditions and presence of visitors on adrenocortical activity in captive African penguins (Spheniscus demersus). *General and comparative endocrinology*, 242, 49-58. DOI: 10.1016/j.ygcen.2015.12.002

Ozella et al. (2015) Pond use by captive African penguins (Spheniscus demersus) in an immersive exhibit adjacent to human bathers. *Journal of Applied Animal Welfare Science*, 18(3), 303-309. DOI: 10.1080/10888705.2014.977384

Ozella et al. (2015) Non-invasive monitoring of adrenocortical activity in captive African Penguin (Spheniscus demersus) by measuring faecal glucocorticoid metabolites. *General and Comparative Endocrinology*, 224, 104-112. DOI: 10.1016/j.ygcen.2015.06.014

Anfossi, **Ozella et al. (2014)** A broad-selective enzyme immunoassay for non-invasive stress assessment in African penguins (Spheniscus demersus) held in captivity. *Analytical Methods*, 6(20), 8222-8231. DOI: 10.1039/C4AY01407C

Favaro, **Ozella et al. (2014)** The vocal repertoire of the African Penguin (Spheniscus demersus): structure and function of calls. *PloS one*, 9(7), e103460. DOI: 10.1371/journal.pone.0103460

▢ Conference presentations derived from the project:

"Effect of weather conditions and visitors presence on adrenocortical activity in captive African Penguin (Spheniscus demersus)" at *10th International Conference on Behaviour, Physiology and Genetics of Wildlife*.

"Faecal Glucocorticoid Metabolites in African Penguins: Biological Validation of an enzyme immunoassay" *6th International Conference on the Assessment of Animal Welfare at Farm and Group Level*

"Introduction of a group of African penguin (Spheniscus demersus) in a new exhibit: behaviour and visitor effect" at *8th International Penguin Conference* and *74° Congresso Nazionale dell'Unione Zoologica Italiana*

Editorial collaborations

Reviewer ▢ *Preventive Veterinary Medicine*
Applied Animal Behaviour Science
Veterinary Sciences
Behavioural Sciences
PloS One
General and Comparative Endocrinology
Animals
Animal Behaviour and Cognition
Emu - Austral Ornithology
New Zealand Journal of Zoology

Guest Editor ▢ Special Issue of *Animals* journal on "Use of Social Network Analysis to Evaluate Animal Welfare". Keywords: Animal welfare, Social behavior, Social structure, Temporal networks, Disease transmission, Physiological welfare.

Scientific and professional associations

- Member of the European Association for Precision Livestock Farming (EA-PLF)

- Member of the Association for the Study of Animal Behaviour (ASAB)

- Member of the Network Science Society (NetSci)

Skills and competences

Languages   Italian (mother tongue)
English (writing and speaking level C1)
Spanish (writing and speaking level B2)

Software   Professional use of the following frameworks for Data Analysis, Machine Learning, Data Visualization and Social Network Analysis:
R, Python, Pandas, Scikit-learn, Matplotlib, Seaborn, NetworkX