

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Nicola FERRARI

Address(es) Department of Veterinary Sciences and Public Health (DIVET)
Universita' degli Studi di Milano

Telephone(s) _____ Mobile: _____

E-mail nicola.ferrari@unimi.it

Nationality Italian

Date of birth _____

Gender Male

Work experience

Dates	December 2013 – Today
Occupation or position held	Assistant Professor Ecology of infectious diseases
Main activities and responsibilities	Research and Teaching
Name and address of employer	Department of Veterinary Sciences and Public Health (DIVET) Universita' degli Studi di Milano Via Celoria 10 - 20133 Milano - Italy
Type of business or sector	University of Milan
Dates	January 2012- November 2013
Occupation or position held	Assistant Epidemiologist
Main activities and responsibilities	Carrying epidemiological analyses and survey on Wildlife populations.
Name and address of employer	Epidemiological Observatory c/o Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia Romagna. Via Bianchi 9 Brasca Italy
Type of business or sector	Functional Public Health Institution of Ministry of Health
Dates	November 2007- November 2011
Occupation or position held	Post-doctoral Fellow
Main activities and responsibilities	Carrying research activities within the project "Epidemiology of the gastrointestinal parasites on domestic ruminants in alpine environment: control and interaction with wildlife" through collection and analyses of data.
Name and address of employer	Department of Veterinary Sciences and Public Health (DIVET) Universita' degli Studi di Milano Via Celoria 10 - 20133 Milano - Italy
Type of business or sector	University of Milan
Dates	September 2006 – September 2007
Occupation or position held	Researcher /Independent Consultant
Main activities and responsibilities	Carrying research activities within the Interreg project III A "LES HABITAT: grazing management models for the improvement and conservation of the environment suitable for tetraonids" with the role on identification and quantification of the sanitary risks related with the summer pasture of sheep and goat on the Alps focusing on the disease transmission between domestic and wild ungulates.

Name and address of employer	Department of Veterinary Sciences and Public Health (DIVET) Universita' degli Studi di Milano Via Celoria 10 - 20133 Milano - Italy
Type of business or sector	University of Milan
Dates	January 2006- July 2006
Occupation or position held	Collaboration
Main activities and responsibilities	Defining communication routes for the surveillance of notifiable diseases of domestic animals.
Name and address of employer	Regional Sanitary & Social Politics Department of the Aosta Valley Autonomous Region, via de Tillier 30, 11100 Aosta, Italy
Type of business or sector	Public Administration.
Dates	January 2004 – December 2005
Occupation or position held	Research Fellow
Main activities and responsibilities	Carrying research activity on the surveillance plan "The fox as an indicator of parasite zoonoses in the Alps" through coordinating data collection and their analyses.
Name and address of employer	National Reference Centre for the Wildlife Diseases at Istituto Zooprofilattico Sperimentale del Piemonte Liguria e Valle d'Aosta; via Regione Amerique 7/g, 11020 Quart (Ao), Italy).
Type of business or sector	Functional Public Health Institution of Ministry of Health
Dates	June 1999 – December 2003
Occupation or position held	Research Scientist
Main activities and responsibilities	Investigations over the Ecology of Wildlife Diseases, through field sampling and data analyses on on vectors and reservoir hosts (small rodents) of tick-borne diseases.
Name and address of employer	Centro di Ecologia Alpina, Viote del Monte Bondone, 38060 Garniga Terme (TN) Italy (Today Edmund Mach Foundation, Via Mach 1, 38010 S. Michele all'Agide (TN), Italy)
Type of business or sector	Autonomous Research Institution
Education and training	
Dates	July 2014
Title of qualification awarded	Specialty on Pathology of Avian species, Lagormorph and Wildlife
Principal subjects/occupational skills covered	Development and analysis through of dynamic of infectious diseases through Mathematical models
Name and type of organisation providing education and training	University of Milan, Faculty in Veterinary Medicine
Dates	September 2013
Title of qualification awarded	Diplomate of European College of Zoological Medicine – Specialty in Wildlife Population Health
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Thesis title "Macroparasite transmission and dynamics in Apodemus flavicollis" .
Name and type of organisation providing education and training	University of Stirling (Uk), Supervisor Prof. P. J. Hudson.
Title of qualification awarded	DVM in Veterinary Medicine
Principal subjects/occupational skills covered	Final thesis "Health survey and survival assessment on restocking hares followed with radiotracking" supervisor Prof. Paolo Lanfranchi.
Name and type of organisation providing education and training	Faculty of Veterinary Medicine; University of Milan (Italy)
Personal skills and competences	

Mother tongue(s)
 Other language(s)
 Self-assessment
 European level (*)

Italian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2 Independent User	C2 Proficient user	B2 Independent User	C1 Proficient user	C2 Proficient user
C1 Proficient user	C2 Proficient user	B2 Independent User	C1 Proficient user	C1 Proficient user
C1 Proficient user	C1 Proficient user	B2 Independent User	B2 Independent User	B1 Independent User

English
French
Spanish

Social skills and competences

-Strong vocation to work on teams with particular ability to deal with colleagues of different education.
 -Very good ability to work on multicultural environment developed during my frequent international experiences.

Organisational skills and competences

-Since 2006 Member of the Chief Board of Italian Society of Ecopathology (www.sief.it)
 -Co-organization of 6 international/national Conferences
 -Organization of Public Courses and Seminars and teaching on several University Graduate and Master courses
 - Associate Editor for Ecopathology on Hystrix-Italian Journal of Mammalogy
 - Referee for International ISI Journals

Technical skills and competences

Statistical analyses: Statistical modelling using regression techniques including analysis of non-normal data, repeated measures and random effects data. Also Survival analyses.
 Mathematical modelling: Building of deterministic differential equation models for understanding the dynamics of host-parasite interactions; model fitting to empirical data using a range of methodologies for parameter estimation; and interrogation of model robustness via sensitivity analyses.

Computer skills and competences

Operating systems: routine operation of management mostly in Linux GNU/UNIX and Windows.
 Advanced use of R-Cran, Genstat; Basic use of SAS, Minitab, Statistica
 Graphical packages: R, Sigma-Plot
 Packages for differential equation modelling: CONTENT, Model Maker.

PUBLICATION: ARTICLES ON ISI JOURNALS

- 1 - Maceda-Veiga, A., Figuerola, J., Martínez-Silvestre, A., Viscor, G., **Ferrari, N.**, Pacheco, M., 2015. Inside the Redbox: Applications of haematology in wildlife monitoring and ecosystem health assessment. *Science of The Total Environment* 514, 322–332.
- 2 - Santicchia, F., Romeo, C., Martinoli, A., Lanfranchi, P., Wauters, L.A., **Ferrari, N.**, 2015. Effects of habitat quality on parasite abundance: do forest fragmentation and food availability affect helminth infection in the Eurasian red squirrel? *J Zool* 296, 38–44.
- 3 - Romeo, C., **Ferrari, N.**, Lanfranchi, P., Saino, N., Santicchia, F., Martinoli, A., Wauters, L.A., 2015. Biodiversity threats from outside to inside: effects of alien grey squirrel (*Sciurus carolinensis*) on helminth community of native red squirrel (*Sciurus vulgaris*). *Parasitol Res* 1–8.
- 4 - Chiari, M., **Ferrari, N.**, Giardiello, D., Avisani, D., Pacciarini, M.L., Alborali, L., Zanoni, M., Boniotti, M.B., 2015. Spatiotemporal and Ecological Patterns of *Mycobacterium microti* Infection in Wild Boar (*Sus scrofa*). *Transbound Emerg*
- 5 - Formenti, N., Viganò, R., Bionda, R., **Ferrari, N.**, Trogu, T., Lanfranchi, P., Palme, R., 2015. Increased hormonal stress reactions induced in an Alpine Black Grouse (*Tetrao tetrix*) population by winter sports. *Journal of Ornithology* 156, 317–321.
- 6 - Genchi, M., **Ferrari, N.**, Fonti, P., De Francesco, I., Piazza, C., Vigiotti, A., 2014. Relation between *Aelurostrongylus abstrusus* larvae excretion, respiratory and radiographic signs in naturally infected cats. *Veterinary Parasitology* 206, 182–187.
- 7 - Chiari, M., **Ferrari, N.**, Giardiello, D., Lanfranchi, P., Zanoni, M., Lavazza, A., Alborali, L.G., others, 2014. Isolation and identification of *Salmonella* spp. from red foxes (*Vulpes vulpes*) and badgers (*Meles meles*) in northern Italy. *Acta Veterinaria Scandinavica* 56, 86.
- 8 - Chiari, M., **Ferrari, N.**, Giardiello, D., Avisani, D., Zanoni, M., Alborali, G.L., Lanfranchi, P., Guberti, V., Lorenzo, C., Antonio, L., 2014. Temporal dynamics of European brown hare syndrome infection in Northern Italian brown hares (*Lepus europaeus*). *Eur J Wildl Res* 60, 891–896.
- 9 - Guberti, V., Stancampiano, L. & **Ferrari, N.** (2014) Surveillance, monitoring and survey of wildlife diseases: a public health and conservation approach. *Hystrix*, 25, 1–6.
- 10 - Romeo, C., Wauters, L.A., **Ferrari, N.**, Lanfranchi, P., Martinoli, A., Pisanu, B., Preatoni, D.G. & Saino, N. (2014) Macroparasite Fauna of Alien Grey Squirrels (*Sciurus carolinensis*): Composition, Variability and Implications for Native Species. *PLoS ONE*, 9, e88002.
- 11 - Romeo, C., Wauters, L.A., Cauchie, S., Martinoli, A., Matthysen, E., Saino, N. & **Ferrari, N.** (2014) Faecal egg counts from field experiment reveal density dependence in helminth fecundity: *Strongyloides robustus* infecting grey squirrels (*Sciurus carolinensis*). *Parasitol. Res.*, 1–6.
- 13 - Romeo, C., **Ferrari, N.**, Rossi, C., Everest, D.J., Grierson, S.S., Lanfranchi, P., Martinoli, A., Saino, N., Wauters, L.A. & Haufler, H.C. (2014) Ljungun Virus and an Adenovirus in Italian Squirrel Populations. *Journal of Wildlife Diseases*, 50, 409–411.
- 14 - Chiari, M., **Ferrari, N.**, Zanoni, M. & Alborali, L. (2014) *Mycoplasma hyopneumoniae* temporal trends of infection and pathological effects in wild boar populations. *European Journal of Wildlife Research*, 60, 187–192.
- 15 - Martinelli, N., Pavoni, E., Filogari, D., **Ferrari, N.**, Chiari, M., Canelli, E. & Lombardi, G. (2013) Hepatitis E Virus in Wild Boar in the Central Northern Part of Italy. *Transboundary and Emerging Diseases*.
- 16 - Romeo, C., Pisanu, B., **Ferrari, N.**, Basset, F., Tillon, L., Wauters, L.A., Martinoli, A., Saino, N. & Chapuis, J.-L. (2013) Macroparasite community of the Eurasian red squirrel (*Sciurus vulgaris*): poor species richness and diversity. *Parasitology Research*, 112, 3527–3536.
- 17 - Mori, E., Ancillotto, L., Menchetti, M., Romeo, C. **Ferrari, N.** (2013) Italian red squirrels and introduced parakeets: Victims or perpetrators? *Hystrix*, 24.
- 18 - Formenti, N. Viganò, R., Rotelli, L., **Ferrari, N.**, Cerutti, M.C. Lanfranchi, P. (2013). Effect of suboptimal environment and host age on helminth community of black grouse (*Tetrao tetrix*). *European Journal of Wildlife Research*. 53: 351-358.
- 19 - Alberti, E.G., Zanzani, S.A., **Ferrari, N.**, Bruni, G., Manfredi M. T. (2012). Effects of gastrointestinal nematodes on milk productivity in three dairy goat breeds. *Small Ruminant Research*. 106S- S12-S17.
- 20 - Imre, K., Morariu, S., Ilie M.S., Imre, M., **Ferrari, N.**, Genchi, C. & Darabus, G. (2012). Serological Survey of *Neospora caninum* infection in cattle herds from Western Romania. *Journal for Parasitology*. 98 (3) 683-685.
- 21 - Genchi, C., **Ferrari, N.**, Venco, L., Billi, M., Bataille, K.S. & Genchi, M. (2012) Evaluation of the performance of heartworm antigen test kits and heartworm antibody test kits for the diagnosis of the infection in dogs and cats. *Veterinaria*, 26, 35–40.
- 22 - Cagnacci, F., Cardini, A., Ciucci, P., **Ferrari, N.**, Mortelletti, A., Preatoni, D.G., Russo, D., Scandura, M., Wauters, L.A. & Amori, G. (2012) Less is more: A researcher's survival guide in times of economic crisis. *Hystrix*, 23.
- 23 - **Ferrari N.**, Rosà R, Lanfranchi P & Ruckstuhl KE (2010) Effect of sexual segregation on host-parasite interaction: model simulations of host-parasite dynamics in alpine ibex (*Capra ibex*). *International Journal for Parasitology* 40, 1285-1293.
- 24 - Luzzago, C., Bronzo, V., Salvetti, S., Frigerio, M. & **Ferrari N.** (2010). Bovine respiratory syncytial virus seroprevalence and risk factors in endemic dairy cattle herds. *Vet. Res. Commun.* 34, 19-34.
- 25 - Cerutti MC, Citterio CV, Bazzocchi C, Epis S, D'Amelio S, **Ferrari N** & Lanfranchi P (2010) Genetic variability of *Haemonchus contortus* (Nematoda: Trichostrongyloidea) in alpine ruminant host species. *Journal of Helminthology* 84, 274-283,
- 26 - Scala A, Demontis F, Varcasia A, Pipia AP, Poglayen G, **Ferrari N** & Genchi M (2009) Toltrazuril and sulphonamide treatment against naturally *Isoospora suis* infected suckling piglets: Is there an actual profit? *Veterinary Parasitology*. 163, 362-365
- 27 - **Ferrari N**, Cattadori IM, Rizzoli A & Hudson PJ (2009) *Heligmosomoides polygyrus* reduces infestation of *Ixodes ricinus* in free-living yellow-necked mice *Apodemus flavicollis*. *Parasitology* 136, 305-316.
- 28 - Di Cerbo AR, Manfredi MT, Trevisol K, Bregoli M, **Ferrari N**, Pirinesi F & Bazzoli S (2008) Intestinal helminth communities of the red fox (*Vulpes vulpes* L.) in the Italian Alps. *Acta Parasitol* 53, 302-311.
- 29 - Genchi C, Venco L, **Ferrari N**, Mortarino M & Genchi M (2008) Feline Heartworm (*Dirofilaria immitis*) infection: a statistical elaboration of the duration of the infection and life expectancy in asymptomatic cats. *Veterinary Parasitology*. 158, 177-182.
- 30 - **Ferrari, N.** Rosà, R., Pugliese, A. & Hudson, P.J. (2007). The role of sex in parasite dynamics: model simulations on transmission of *Heligmosomoides polygyrus* in yellow-necked mouse populations. *International Journal for Parasitology* 37, 341-349.
- 31 - Citterio CV, Caslini C, Milani F, Sala M, **Ferrari N** & Lanfranchi P (2006) Abomasal nematode community in an Alpine Chamois (*Rupicapra r. rupicapra*) population before and after a die-off. *Journal of Parasitology* 92, 918-927.
- 32 - Balestrieri A, Remonli L, **Ferrari N**, Ferrari A, Lo Valvo T, Robetto S & Orusa R (2006) Sarcopic mange in wild carnivores and its co-occurrence with parasitic helminths in the Western Italian Alps. *European Journal of Wildlife Research* 52, 196-201.
- 33 - **Ferrari N**, Cattadori MC, Nespereira J, Rizzoli A & Hudson PJ (2004) The role of host sex in parasite dynamics: field experiments on yellow-necked mouse *Apodemus flavicollis*. *Ecology Letters* 7, 88-94.
- 34 - Pirovano A, Rubolini D, Brambilla S & **Ferrari N** (2000) Winter diet of urban roosting Long-eared Owls (*Asio otus*) in northern Italy: the importance of the Brown Rat (*Rattus norvegicus*). *Bird Study* 47, 242-244.

BOOKS

1 - Rosà R, Rizzoli A, Ferrari N Pugliese A (2006) Models for host-macroparasite interactions in micromammals. In: Morand S, Krasnov B.R., Poulin R. (eds) *Micromammals and Macroparasites - From Evolutionary Ecology to Management*. Springer-Verlag Tokio, pp 319-348.

2 - Meriggi A, Ferloni M, Ceremia R, Ferrari N & Lolli F (2001) Studio sul successo dei ripopolamenti di lepre. (Study on the success of hare restocking programs) Greentime Editore.

INVITED SPEAKER

1 - Ferrari, N., Stancampiano, L. (2010) The contribute of parasitology to the ecopathology in Italy: a one-way collaboration? XXVI National Conference of the Italian Society for Parasitology, 22-25 June 2010, Perugia

2 - Ferrari, N., Bertolino, S. (2010) Parasitological researches in small mammals; status and perspective in Italy. Italian Meeting on Small Mammals researches. 18-19 February 2010 Nazzano, Roma.

3 - Ferrari, N., Stancampiano, L. (2009). Ecopathology 15 years after: review of Italian scientific literature after the I National conference of Ecopathology of Wildlife. III National Conference of the Italian Society for Ecopathology (SIEF). 15-17 October 2009, Turin.

4 - Ferrari, N. (2009) Mortality in wildlife populations: is always bad?. In: Conference Mortality in wildlife: is winter foraging a sustainable management tool? Longarone, 2 May.

PRESENTATION ON INTERNATIONAL CONFERENCES

1. Ferrari, N., von Hardenberg, A., Bassano, B., Brosi, G., Lanfranchi, P. (2012) Effects of Alpine ibex life history on parasite infections: are old males the most infected and affected individuals? 22nd Meeting of Alpine Ibex European Specialist Group (GSE-AIESG). 26-28 October 2012, Zerneze (CH).

2. Ferrari, N., Pedrotti, R., Bassano, B. & Lanfranchi, P. (2010). Effect of host life history on parasite infection; are old males the super-spreader? British Society for Parasitology Annual Spring Meeting. 12th-14th April 2011 University of Nottingham. (UK)

3. Ferrari, N., Lanfranchi, P. (2010). Individual based measure of interactive/isolationist degree of infracommunities: towards an assessment of the role of intrinsic and extrinsic factors. British Society for Parasitology Annual Spring Meeting. 29th March-1st April 2010. University of Cardiff. (UK).

4. Ferrari, N., Rosà, R., Lanfranchi, P. & Ruckstuhl, K.E. (2008). Consequences of sexual segregation of Alpine ibex on parasite transmission. 21st Meeting of Alpine Ibex European Specialist Group (GSE-AIESG). 11-12 December 2008, Ceresole Reale. (It).

5. Pedrotti, R., Orizio, S., Ferrari, N., von Hardenberg, A. & Lanfranchi, P. (2008). Factors affecting summer dynamics parasite egg emission in Alpine ibex. 21st Meeting of Alpine Ibex European Specialist Group (GSE-AIESG). 11-12 December 2008, Ceresole Reale (It).

6. Ceccarelli, R., Valenti, V., Lanfranchi, P. & Ferrari, N. (2008). Host factors affecting abomasal parasites in Alpine Ibex. 21st Meeting of Alpine Ibex European Specialist Group (GSE-AIESG). 11-12 December 2008, Ceresole Reale (It).

7. Ruggieri, M., Caslini, C., Passalacqua, C., Ferrari, N., Brogna, A., Citterio, C.V. & Lanfranchi, P. (2007). Effect of red deer on abomasal nematode community of chamois: a 14-years assessment. 1st International conference on Genus Cervus. 14-17 September 2007 Primiero. (It).

8. Caslini, C., Ferrari, N., Ruggieri, M., Citterio, C.V., Lanfranchi, P. (2006). Does the parasitic community of chamois reflect changes of environment and interactions between ungulate species? VII Conference of the European Wildlife Diseases Association. 27-30 September 2006. St. Vincent, Aosta, (It).

9. Ferrari, N., Citterio, C.V., Sartorelli, P., Bassano, B., Von Hardenberg, A. & Lanfranchi, P. (2006). Is there an impact of macroparasite on Alpine Ibex population dynamics? Abstract Book of XX Conference of Alpine Ibex European Specialist Group, 12-14 October, Pontresina, (CH).

10. Ferrari, N., Rosso, F., Manfredi, M.T. & Rizzoli, A.P. (2006) Parasite community of *Apodemus flavicollis* in Trentinian Alps: the effect of spatial, environmental and host factors on its structure and composition. 10th Rodents & Spatium, International Congress on Rodent Biology, 24-28 July, Parma (It), 2006, *Hystrix, It. J. Mamm. Supp.* Pg 49-51

11. Rosà, R., Ferrari, N., Pugliese, A. & Rizzoli, A. P. (2006) Effect of host sex on the dynamics of *Heligmosomoides polygyrus*-*Apodemus flavicollis* interaction: a modelling approach. Proceedings of 10th Rodents & Spatium, International Congress on Rodent Biology, 24-28 Luglio, Parma (It), 2006, *Hystrix, It. J. Mamm. Supp.* Pg 109

12. Robetto, S., Lo Valvo, T., Bergagna, S., Domenis, L., Ferrari, A., Ferrari, N., Spedicato, R., Pais, L. & Orusa, R. (2005). "Preliminary reports on sanitary condition of chamois (*Rupicapra rupicapra*) in NW Italian Alps". 13th International Congress of Fe.Me.S.P.Rum. 1-3 September 2005, Valenzano (It).

13. Orusa, R., Robetto, S., Ferrari, N., Lo Valvo, T., Tarasco, R., Cerise, S. & Abele, M.C. (2005). Contamination of cadmium and lead in wild boar (*Sus scrofa*) from areas with different anthropogenic impact" XXVIIth Congress of the International Union of Game Biologist, 3rd September 2005, Hannover, Germany.

14. Peracino, V., Peracino, A., Lo Valvo, T., Ferrari, N., Robetto, S. & Orusa R. (2004). National Reference Centre for Wild Animal Diseases concerning Alpine Ibex in the Italian Alps (Ce.R.M.A.S.). Abstracts Book XIXth Meeting of Alpine Ibex European Specialist Group (GSE-AIESG) 2-3 December 2004 Cogne, Aosta.

15. Orusa, R., Lo Valvo, T., Balestrieri, A., Ferrari, N., Remonti, L., Ferrari, A., Robetto & S., Domenis, L. (2004). Wild carnivores as bioindicators of *Salmonella* spp. infections. The 6th Conference of the European Wildlife Disease Association. 8-12 September 2004 Uppsala, (Sv).

16. Lombardi, S. & Ferrari, N. (2003) Preliminary analysis about fluctuating asymmetry and parasite load in *Apodemus* spp. Abstract Book IV European Vertebrate Pest Management Conference, 9-12 September 2003, Parma (It).

17. Rizzoli, A., Perkins, S.E., Cattadori, I., Stradiotto, A., Tioi, S., Ferrari, N., Scalet, G., Tagliapietra, V., Lombardi S. & Casiraghi, M. (2003) Tick-borne diseases and rodent reservoirs: preliminary results of a survey carried out in the Province of Trento- Northern Italy. Abstract Book IV European Vertebrate Pest Management Conference. 9-12 September 2003, Parma (It).

18. Rizzoli A., Rosà, R., Tagliapietra V., Hudson P.J., Cattadori I., Ferrari N., Favia G., Manfredi M.T. & Genchi C. (2001). *Borrelia* spp. infection in a natural population of *Apodemus* mice: preliminary results. 18th International Conference of the World Association for the Advancement of Veterinary Parasitology 26-30 August 2001, Stresa, (It).

19. Rizzoli A., Rosso F., Rosà R., Ferrari N., Cattadori I.M. & Hudson P.J. (1999) Parasitism and rock partridge dynamics. Workshop Office National de la Chasse-CNERA Symposium on Mountain Wildlife, 26 -28 October 1999, Villetta Barrea (It)

