

Stella Mazeri | Curriculum Vitae

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Skills

I am a veterinary surgeon with strong skills in quantitative epidemiology and data science. I have 9 years experience in data management, exploration and statistical analysis using the R statistical system. I have designed, executed and analysed complex epidemiological studies. I have experience and confidence when working on field epidemiology projects in tropical settings especially in Sub-Saharan Africa and India as well as the UK. I enjoy and work efficiently as part of a multidisciplinary team. I am confident in engaging with the public sector and able to translate scientific outputs into public and stakeholder communications.

Education

European Specialist in Veterinary Public Health and Population Medicine <i>European College of Veterinary Public Health</i>	2015-2020 <i>EU</i>
Associate Fellowship of the Higher Education Academy <i>The University of Edinburgh</i>	2017-2018 <i>UK</i>
PhD in Veterinary Epidemiology <i>The University of Edinburgh</i>	2012-2016 <i>Royal (Dick) School of Veterinary Studies, UK</i>
Improved use of abattoir information to aid the management of fasciolosis in cattle and sheep	
MSc in Public Health Research <i>The University of Edinburgh</i>	2011-2012 <i>Centre for Population Health Sciences, UK</i>
Dissertation title: "Seroepidemiology of <i>Brucella</i> and <i>Leptospira</i> in recently calved cows in Western Kenya: a cross sectional study"	
Bachelor of Veterinary Medicine and Surgery <i>The University of Edinburgh</i>	2005-2010 <i>Royal (Dick) School of Veterinary Studies, UK</i>

Academic experience

Awards/Research Grants.....

2021: *Chancellor's fellowship, 5-year tenure track* – University of Edinburgh

2021: *Data-driven estimates and forward predictions of COVID-19 prevalence and associated health-care resource requirements in Edinburgh and South-East Scotland* – Data Driven Innovation (DDI) Programme SFC (Scottish Funding Council) Beacon Programme DDI (Total £94,680, Co-I)

2020: *Understanding the epidemiology of COVID-19 in Scotland to design and model lockdown exit strategies: A risk-based approach to policy prioritisation* – Small Grant Innovation Funding Call for COVID-19 pandemic – Data Driven Innovation Initiative (£18K, Co-I)

2020: *From the FIELD: Impacts of COVID-19 on Food security Interventions (and lived Experiences) for sustainable Local Development in Northwest Syria and Turkey* – 2019/2020 SFC-GCRF Covid-19 Fund – SFC-GCRF (£32K, Co-I)

2020: *Initiation of ELDERS project : Edinburgh Longitudinal Dog Epidemiology Research Study* – Fiona and Ian Russell Seed Corn Fund for Companion Animal Research Grant (£5K, Co-I)

2020: *VD4M: Data and epidemiological training to improve livestock health and productivity in Malawi* – Strategic training awards for research skills – BBSRC Global Challenges Research Fund (£47K, Named researcher)

2019: *Investigation of the impact of neutering on the welfare and population dynamics of free roaming dogs* – Canine welfare projects – Dogs Trust (£330K, Co-I)

2019: *Travel & Partnerships Fund* – Scottish Funding Council, part of Global Challenges Research Fund (£5K, PI)

2017: *Standard Innovation Voucher* – Scottish Funding Council (£5K, PI)

2012-2016: 4 year PhD studentship – Scotbeef Limited

2015: Birrell-Grey Travelling Scholarship – Royal (Dick) School of Veterinary Studies (£500)

2014: Student Travel Award – British Society for Parasitology (£200)

2012: The William Dickson Travelling Fund – University of Edinburgh (£235)

Publications

2020: Corfmat J, Gibson AD, Mellanby RJ, Watson W, Gamble L, **Mazeri S**. Community attitudes and perceptions towards free-roaming dogs in Goa, India. Submitted to *Applied Animal Welfare Science*

2020: Bodenham RF, **Mazeri S**, Cleaveland S, Crump JA, Fasina FO, Glanville WA, Haydon DT, Kazwala RR, Kibona TJ, Maro VP, Maze MJ, McGiven J, Mmbaga BT, Mtui-Malamsha N, Shirima GM, Swai ES, Thomas KM, Bronsvoort BMC, Halliday JEB. Latent class evaluation of the performance of serological tests for exposure to *Brucella* spp. in cattle, sheep, and goats in Tanzania. Addressing reviewers comments for *Plos Neglected Tropical Diseases*

2020: Stokes SA, Burdon Bailey J, Lohr F, Gibson A, Michembo J, Maruwo G, Mayer D, Gamble L, Bronsvoort BMC, Handel I, Mellanby R, **Mazeri S**. Hair of the dog: Evaluation of barriers to health care seeking behaviour after dog bites in Blantyre city, Malawi using a mixed-methods approach Top of Form. Addressing reviewers comments for *BMC Public Health*

2020: Lohr F, Gibson AD, Wallace RW, Yale G, Appupillai M, Corfmat J, Desai S, Naik V, Bronsvoort BMD, Handel IG, **Mazeri S**, Mellanby RJ, Gamble L. Eliminating canine rabies: Application of the Stepwise Approach to Rabies Elimination (SARE) tool in Goa state, India. Addressing reviewers comments for *Antiviral Research*

2021: Al-Mustapha A, Abubakar AT, Oyewo M, Bamidele FO, Ibrahim A, Shuaib MO, Olugasa B, Balogun MS, Kia G, **Mazeri S**, Heikinheimo A. Baseline epidemiology and associated dog ecology study towards stepwise elimination of rabies in Kwara state, Nigeria. *Preventive Veterinary Medicine*

2021: Yale G, Sudarshan S, Ganesan PI, Tirumurugaan KG, Vijaya Bharathi M, Yajaman Belludi A, Taj S, Mani R and **Mazeri S**. Investigation of protective levels of rabies antibodies in vaccinated dogs in Chennai, India. Accepted by *Veterinary Record Open*

2021: **Mazeri S**, Burdon Bailey JL, Mayer D, Chikungwa P, Chulu J, Grossman PO, Lohr F, Gibson AD, Handel IG, Bronsvoort BMD, Gamble L, Mellanby RJ. Using data-driven approaches to improve delivery of animal health care interventions for public health. *PNAS*

2021: Dahm JR, Burdon Bailey J, Kelly RF, Chikungwa P, Chulu J, Junior LC, Freeman EJ, Mayer D, **Mazeri S**, Sargison ND. Risk factors associated with *Ctenocephalides felis* flea infestation of peri-urban goats: a neglected parasite in an under-appreciated host. *Tropical Animal Health and Production*

2020: Sargison ND, **Mazeri S**, Gamble L, Lohr F, Chikungwa P, Chulu J, Hunsberger KT, Jourdan N, Shah A, Burden Bailey JL. Conjunctival mucous membrane colour as an indicator the targeted selective treatment of haemonchosis and of the general health status of peri-urban smallholder goats in southern Malawi. *Preventive Veterinary Medicine*

2020: Fielding HR, Gibson AD, Gamble L, Fernandez K, Airikkala-Otterd I, Handel IG, Bronsvoort BMC, Mellanby RJ, **Mazeri S**. Timing of reproduction and association with environmental factors in free-roaming dogs in southern India. *Preventive Veterinary Medicine*

2020: Callaby R, Kelly R, **Mazeri S**, Egbe F, Benedictus L, Clark E, Doeschl-Wilson A, Bronsvoort BMC, Salavati M, Muwonge A. Genetic diversity of Cameroon cattle and a putative genomic map for resistance to bovine tuberculosis. *Frontiers in Genetics*

2020: Marron O, Thomas G, Burdon Bailey JL, Mayer D, Grossman PO, Lohr F, Gibson AD, Gamble L, Chikungwa P, Chulu J, Handel IG, Barend Bronsvoort BMD, Mellanby RJ, **Mazeri S**. Factors associated with mobile phone ownership and potential use for rabies vaccination campaigns in southern Malawi. *Infectious diseases of poverty*

2020: Leahy E, Shome R, Deka RP, Sahay S, Grace D, **Mazeri S**, Lindahl J. Risk factors for *Brucella* spp. and *Coxiella burnetii* infection among small ruminants in Eastern India. *Infection Ecology & Epidemiology*

2020: Koliou GK, Kasapi D, **Mazeri S**, Maikanti P, Demetriou A, Skordi C, Agathocleous M, Constantinou E. Epidemiology of meningococcal disease in Cyprus 2004-2018. *Eurosurveillance*.

2020: Sánchez-Soriano C, Gibson AD, Gamble L, Bailey JLB, Mayer D, Lohr F, Chikungwa P, Chulu J, Handel

IG, Bronsvoot BMD, Mellanby RJ, **Mazeri S**. Implementation of a mass canine rabies vaccination campaign in both rural and urban regions in southern Malawi. *PLoS Negl Trop Dis* 14(1): e0008004.

2019: Sanchez Soriano C, Gibson AD, Gamble L, Burdon Bailey JL, Green S, Green M, Bronsvoot BM, Handel IG, Mellanby RJ, **Mazeri S**. Development of a high number, high coverage dog rabies vaccination programme in Sri Lanka. *BMC Infections Diseases*. 19, 977

2019: Gibson AD, **Mazeri S**, Yale G, Desai S, Naik V, Corfmat J, Ortmann S, King A, Muller T, Handel I, Bronsvoot BM, Gamble L, Mellanby RJ, Vos A. Development of a Non-Meat-Based, Mass Producible and Effective Bait for Oral Vaccination of Dogs against Rabies in Goa State, India. *Trop Med Infect Dis.* 4;4(3)

2019: Meunier NV, Gibson AD, Corfmat J, **Mazeri S**, Handel IG, Gamble L, Bronsvoot BMC, Mellanby RJ. A comparison of population estimation techniques for individually unidentifiable free-roaming dogs. *BMC veterinary research*. 15 (1), 190

2019: Kelly RF, **Mazeri S**, Hartley C, Hamman SM, Ngwa VN, Nkongho EF, Tanya V, Sander M, Ndip L, Morgan KL, Muwonge A, Handel I, Bronsvoot BMC, Williams DJL. Assessing the performance of a *Fasciola gigantica* serum antibody ELISA to estimate prevalence in cattle in Cameroon. *BMC veterinary research*. 15(1),8

2019: Meunier NV, Panti A, **Mazeri S**, Fernandes KA, Handel IG, Bronsvoot BMC, Gamble L, Mellanby RJ. Randomised trial of perioperative tramadol for canine sterilisation pain management. *Veterinary Record*, 185, 406.

2019: Yale G, Gibson AD, Mani RS, Harsha PK, Costa NC, Corfmat J, Otter I, Otter N, Handel IG, Bronsvoot BM, Mellanby RJ, Desai S, Naik V, Gamble L, **Mazeri S**. Evaluation of an Immunochromatographic Assay as a Canine Rabies Surveillance Tool in Goa, India. *Viruses*. 11 (7), 649

2019: Evans MJ, Burdon Bailey JL, Lohr FE, Opira W, Migadde M, Gibson AD, Handel IG, Bronsvoot BMC, Mellanby RJ, Gamble L, **Mazeri S**. Implementation of high coverage mass rabies vaccination in rural Uganda using predominantly static point methodology. *The Veterinary Journal*. 249, 60-66

2019: Mirembe BB, **Mazeri S**, Callaby R, Nyakarahuka L, Kankya C, Muwonge A. Temporal, spatial and household dynamics of Typhoid fever in Kasese district, Uganda. *PLoS one*. 14 (4), e0214650

2019: Gibson AD, Yale G, Vos A, Corfmat J, Airikkala-Otter I, King A, RM Wallace RM, Gamble L, Handel IG, Mellanby RJ, Bronsvoot BMC, **Mazeri S**. Oral bait handout as a method to access roaming dogs for rabies vaccination in Goa, India: A proof of principle study. *Vaccine: X*. 1, 100015

2019: Lycett S, Tanya VN, Hall M, King SP, **Mazeri S**, Mioulet V, Knowles NJ, Wadsworth J, Bachanek-Bankowska, Ngwa VN, Morgan KL, Bronsvoot BMC. The evolution and phylodynamics of serotype A and SAT2 foot-and-mouth disease viruses in endemic regions of Africa. *Scientific reports*. 9 (1), 5614

2019: Meunier NV, Gibson AD, Corfmat J, **Mazeri S**, Handel IG, B Bronsvoot BMC, Gamble L, Mellanby RJ. Reproducibility of the mark-resight method to assess vaccination coverage in free-roaming dogs. *Research in veterinary science*. 123, 305-310

2019: **Mazeri S**, Gibson AD, Bronsvoot BMC, Ian G Handel, Lohr F, Burdon Bailey J, Mayer D, Gamble L, Mellanby RJ. Sociodemographic factors which predict low private rabies vaccination coverage in dogs in Blantyre, Malawi. *Veterinary Record*. 184 (9), 281-281

2019: Bronsvoot BM, Bagninbom JM, Ndip L, Kelly RF, Handel I, Tanya VN, Morgan KL, Ngwa VN, **Mazeri S**, Nfon C. Comparison of two Rift Valley Fever serological tests in Cameroonian cattle populations. *Frontiers in Veterinary Science*. 6, 258

2019: Sargison ND, Shahzad K, **Mazeri S**, Chaudhry U. A high throughput deep amplicon sequencing method to show the emergence and spread of *Calicophoron daubneyi* in United Kingdom cattle herds. *Veterinary Parasitology*. 268, 9-15

2019: Gamble L, Gibson A, **Mazeri S**, Bronsvoot BMC, Handel I, Mellanby RJ. Development of non-governmental organisation-academic partnership to tackle rabies in Africa and Asia. *Journal of Small Animal Practice*. 60 (1), 18-20

2018: Kelly RF, Callaby R, Egbe NF, Willaims D, Ngwa VN, Tanya VN, Sander M, Ndip L, Ngandolo R, Morgan KL, Handel IG, **Mazeri S**, Muwonge A, Bronsvoot BM. Association of *Fasciola gigantica* co-infection with bovine tuberculosis infection and diagnosis in a naturally infected cattle population in Africa, *Frontiers in veterinary science*. 5,214

2018: Gibson AD, Frederic Lohr F, Mayer D, Burdon Bailey J, **Mazeri S**, Handel IG, Shervell K, Bronsvoot BMD, Mellanby RJ and Gamble G. One million dog vaccinations recorded on mHealth innovation used to direct

teams in numerous rabies control campaigns. *PLoS One*.13(7): e0200942

2018: Airikkala-Otter I, Gamble L **Mazeri S**, Handel IG, Bronsvooort BMD, Mellanby RJ, Meunier MV, Investigation of short-term surgical complications in a low-resource, high-volume dog sterilisation clinic in India. *BMC Veterinary Research*. 27;14(1):56

2018: Burdon Bailey JL, Gamble L, Gibson AD, Bronsvooort BMD, Handel IG, Mellanby RJ, **Mazeri S**. A Rabies Lesson Improves Rabies Knowledge Amongst Primary School Children in Zomba, Malawi. *PLoS neglected tropical diseases*. 9;12(3):e0006293

2018: **Mazeri S**, Gibson AD, Meunier N, Bronsvooort BMD, Handel IG, Mellanby RJ, Gamble L, Barriers of attendance to dog rabies static point vaccination clinics in Blantyre, Malawi. *PLoS neglected tropical diseases*. 11;12(1):e0006159

2017: Muleme J, Kankya C, Ssempebwa J C, **Mazeri S** and Muwonge A. A Framework for integrating qualitative and quantitative data in knowledge attitude and practice studies: A case study of pesticide usage in eastern Uganda. *Frontiers in Public Health*. 8;5:318

2017: **Mazeri S**, Rydevik G, Handel I, Bronsvooort BMD, Sargison N. Estimation of the impact of *Fasciola hepatica* infection on time taken for UK beef cattle to reach slaughter weight. *Scientific Reports*. 4;7(1):7319

2017: Egbe NF, Muwonge A, Ndip L, Kelly RF, Sander M, Tanya V, Ngwa V, Handel IG, Novak A, Ngandalo R, **Mazeri S**, Morgan KL, Asuquo A, Bronsvooort BMD. Molecular epidemiology of *Mycobacterium bovis* in Cameroon. *Scientific Reports*. 5;7(1):4652

2017: Leahy E, Bronsvooort B, Gamble L, Gibson A, Kaponda H, Mayer D, **Mazeri S**, Shervell K, Sargison N. Proof of concept of faecal egg nematode counting as a practical means of veterinary engagement with planned livestock health management in a lower income country. *Irish Veterinary Journal*. 2;70:16.

2017: Sargison ND, Ivil SA, Abraham J, Abubaker SP, Hopker AM, **Mazeri S**, Otter IA, Otter N5. Investigation of productivity in a south Indian Malabari goat herd shows opportunities for planned animal health management to improve food security. *Veterinary Record*. 18;180(11):278

2016: **Mazeri S**, Sargison ND, Kelly RF, Bronsvooort BMdeC, Handel IG. Evaluation of the performance of five diagnostic tests for *Fasciola hepatica* infection in naturally infected cattle using a Bayesian no gold standard approach. *PLoS One*. 26;11(8):e0161621

2016: Nkongho EF, Muwonge A, Mande N, Kelly RF, Sander M, Tanya V, Ngwa VN, Handel IG, Novak A, Ngandalo B, **Mazeri S**, Morgan K, Asuquo A, and Bronsvooort BMdeC. Abattoir-based estimates of mycobacterial infections in Cameroon. *Scientific Reports*. 14;6:24320

2016: Sargison ND, Francis E, Davison E, Bronsvooort BMdeC, Handel IG and **Mazeri S**. Observations on the biology, epidemiology and economic relevance of rumen flukes (*Paramphistomidae*) in cattle kept in a cold to temperate environment. *Veterinary Parasitology*. 30;219:7-16

2016: Kelly RF, Hamman SM, Morgan KL, Nkongho EF, Ngwa VN, Tanya V, Andu WN, Sander M, Ndip L, Handel IG, **Mazeri S**, Muwonge A and Bronsvooort BMdeC. Knowledge of bovine tuberculosis, cattle husbandry and dairy practices amongst pastoralists and small-scale dairy farmers in Cameroon. *PLoS One*. 8;11(1):e0146538

2013: **Mazeri S**, Scolamacchia F, Handel IG, Morgan KL, Tanya VN, Bronsvooort BM. Risk factor analysis for antibodies to *Brucella*, *Leptospira* and *C. burnetii* among cattle in the Adamawa Region of Cameroon: a cross-sectional study. *Tropical Animal Health and Production*. 45;2:617-623

Teaching.....

2019- Evidence Based Veterinary Medicine - BVM&S final year

2019- Disease detection lecture as part of the MSc in Conservation Medicine

2019- Organisation and delivery of data analysis section of the Uganda and Malawi Fleming Fellowship Programme using the R statistical software

2019: Dissertation supervisor of MSc International Animal Welfare, Ethics & Law student

2019: Dissertation supervisor of MSc One Health student

2018- Course organiser of Data Analysis for Food Safety course as part of the MSc in Food Safety.

2018: Dissertation supervisor of MSc Animal Bioscience student

2017- PhD supervisor of student working on Rabies Epidemiology

2016-2018: MSc Animal Bioscience: Involved in R and epidemiology teaching and course writing.

2016-2017: Dissertation supervisor of MSc International Animal Welfare, Ethics & Law student
2012-2014: Supervised 4 Student Selected Component 2 (SSC2) research projects
2012-2013: Teaching assistant for courses in Introductory Statistics, Veterinary Epidemiology, Evidence-based veterinary medicine for the University of Edinburgh Undergraduate Veterinary Medicine

Conferences/Meetings.....

2020: The 6th World One Health Congress, Edinburgh (oral presentation)
2018: International Society for Veterinary Epidemiology and Economics, Chiang Mai (poster presentation)
2017: Society for Veterinary Epidemiology and Preventive Medicine Annual Meeting, Inverness
2015: International Society for Veterinary Epidemiology and Economics, Yucatan (oral and poster presentation)
2015: European College of Veterinary Public Health, Belgrade (poster presentation)
2015: British Society for Parasitology Autumn Symposium 'One Health: Parasites and Beyond', London (poster presentation)
2015: World Association for the Advancement of Veterinary Parasitology, Liverpool (2 oral presentations)
2015: Roslin Institute Research Students Day, Edinburgh (oral presentation)
2015: 3rd International One Health Congress, Amsterdam, March 2015
2014: British Society for Parasitology Spring meeting, Cambridge (oral presentation)
2013-2014: Edinburgh Infectious Diseases Annual symposium, Edinburgh (poster presentations)
2013: Sheep Veterinary Society Autumn Meeting, Edinburgh (oral presentation)
2013: Society for Veterinary Epidemiology and Preventive Medicine Annual Meeting, Madrid (poster presentation)
2012: Neglected Diseases Research Symposium, Edinburgh

Courses.....

2020: Introduction to Eddie *University of Edinburgh*
2019: Additive Bayesian Networks as an alternative for risk factor studies *ECVPH residency workshop, Zurich*
2019: Scottish Mental Health First Aid Course *Scotland's Mental Health First Aid, NHS Health Scotland*
2018: Advanced Python for Biologists *Edinburgh Genomics, University of Edinburgh*
2018: Python for Biologists *Edinburgh Genomics, University of Edinburgh*
2017: Intro to Online Distance Learning *Institute for Academic Development, University of Edinburgh*
2017: Mathematical Models for Infectious Disease Dynamics *Wellcome Genome Campus Courses, Cambridge*
2015: Network analysis and modelling *ISVEE post conference workshop, Yucatan*
2015: Animal Health Surveillance *ECVPH residency workshop, Bern*
2015: Bayesian prevalence estimation and modelling using OpenBugs *ECVPH residency workshop, Berlin*
2015: Ethics and Animal Welfare Risk Assessment *ECVPH residency workshop, Hannover*
2014: Spatial and Temporal Statistical Modelling Course *Institute of Infection & Global Health, University of Liverpool*
2014: GEOSTAT 2014 Bergen *Geostat, Norwegian School of Economics in Bergen*
2013: Bayesian Disease Mapping *Centre for Population Health Sciences, University of Edinburgh*
2012: Principles of GIS *School of Geosciences, University of Edinburgh*
2012-2014: Practical strategies for designing & delivering excellent lectures. How do people learn? What this means for teaching. Writing well, language and style. Factor Analysis Workshop. Facilitation Workshop: Supporting learning in others. Unix 1:Introduction. Unix 2:Intermediate. *Institute for Academic Development, University of Edinburgh*

Public engagement.....

2018: Lets Talk About Health and Disease Public Lecture Series (oral presentation) - College of Medicine and Veterinary Medicine
2015-2017: The Royal Highland Show - Roslin Institute and Vet School stand
2012-2015: Annual Scotbeef Winter Fairs (poster presentations)
2014,2017: The Roslin Institute Doors Open Day

2014: Sustainable Beef Club Meeting organised by Scotbeef, M&S, McDonalds (oral presentation)

2012-2014: Annual Scotbeef Winter Fairs (poster presentations)

2013: Scotbeef Limited producer meetings (oral presentations)

Employment

2016-Present: Postdoctoral epidemiologist at the Roslin Institute

Summer 2012: Postgraduate Research Assistant at The Roslin Institute

Jan 2011 - May 2012: Postgraduate Research Assistant at The Roslin Institute

1999 onwards: Continued cattle and sheep farming experience

Summer 2002: English to Greek and Greek to English translation at University of Cyprus

Professional memberships

2013-present: British Society for Parasitology

2010-present: Royal College of Veterinary Surgeons

Additional qualifications and skills

Technical skills: R Statistical System, R Shiny, QGIS, Python, Git version control system, Unix, Bash, L^AT_EX document preparation system

Languages: Greek (Native Speaker), English (Fluent), French (Intermediate), Spanish, Italian (Basic)

First Aid: Mental Health First Aider

Driving: Full European Driving licence

Interests

Music: Member of a music band called Baharat Collective

Travelling: Meeting new people and learning about new cultures was an important part of my travels through Europe, China and Africa.

Event management:

- Co-founder of Syn Festival Edinburgh (2014-present). www.synfestivaledinburgh.co.uk
- Member of the Edinburgh University Hellenic Society Committee (2007–2015).

REFEREES

Available upon request.