Curriculum Vitae

Personal Information

Matthew Vernon MA VetMB LGSM MRCVS

Date of Birth: 22nd September 1978

Employment

2006–present	Research Fellow, University of Warwick

Education and Qualifications

2003–2006	Department of Veterinary Medicine, University of Cambridge, reading for a PhD in veterinary epidemiology
2004	Admitted to MA degree
2003	Admitted to the Royal College of Veterinary Surgeons (MRCVS)
1997-2003	Selwyn College, Cambridge, reading Veterinary Medicine. VetMB: Clinical Veterinary Medicine (pass) BA: Parts 1A and 1B Medical and Veterinary Sciences Tripos, Part 2 Natural Sciences (Pathology) (II.1)
1997	LGSM Teaching Diploma — Euphonium
1990-1997	Tiffin School, Kingston-upon-Thames. A levels: 5 A, 1 B S-level Biology (Merit) GCSEs: 9 A*, 3 A

Publications and Presentations

Matthew C. Vernon, Matt J. Keeling (2009) Representing the UK's cattle herd as static and dynamic networks. *Proceedings of the Royal Society B*, 276:469-476

M. Fred Heath, Matthew C. Vernon, Cerian R. Webb (2008). Construction of networks with intrinsic temporal structure from UK cattle movement data. *BMC Veterinary Research*, 4:11

Matthew C. Vernon, Matt J. Keeling (2008). Simulating infectious diseases using network and individual-based models. 28th International Sunbelt Social Network Conference, Florida, USA, January 2008.

Matthew C. Vernon, Matt J. Keeling (2007). Representing the United Kingdom's cattle herd as static and dynamic networks. Joint Annual Meetings of The Society for Mathematical Biology and The Japanese Society for Mathematical Biology, San Jose, USA, July-August 2007.

Matthew C. Vernon, Cerian R. Webb, M. Fred Heath (2006). How important are cattle movements? A field study of contact networks between farms. 27th International Sunbelt Social Network Conference, Corfu, Greece, May 2007.

Matthew C. Vernon, Cerian R. Webb, M. Fred Heath (2006). The global structure of networks and veterinary disease modelling. 26th International Sunbelt Social Network Conference, Vancouver, Canada, April 2006.

Matthew C. Vernon, Cerian R. Webb, M. Fred Heath (2005). Preliminary analysis of the contact structure of the UK cattle herd. 25th International Sunbelt Social Network Conference, California, USA, February 2005.

CN Torgler; M Narasimha; AL Knox; CG Zervas; MC Vernon; NH Brown (2004). Tensin stabilises integrin adhesive contacts in Drosophila. *Developmental Cell*, 6:357-369

Teaching Experience

I was an external lecturer (on the dynamics of infectious diseases) for the University of Birmingham's MPH course.
I have supervised the following subjects: Population Biology (part 2 NST), Introduction to the Scientific Basis of Medicine (part 1A MVST), Physiology of Organisms (part 1A NST), and Veterinary Reproductive Biology (part 1B MVST).

Research Interests

Applying contact network analysis to the cattle herd of the United Kingdom, in order to generate epidemiological models appropriate to the UK cattle industry
The relationship between the structure of networks and the dynamics of infectious disease processes on those networks
Portable, free, software and algorithms for network analysis
Design and implementation of epidemiological surveys

Technical Skills and Experience

Familiar with a wide range of social network analysis techniques
Experience of collecting network and epidemiological data by postal questionnaire
Good knowledge of ANSI C, programming in the UNIX environment, HTML, XHTML, sed, and bash
Working knowledge of UCINET, SQL, Python, Perl, awk and LaTeX
System administration experience of Linux and Solaris
Computing support for Selwyn College students, and managing the webserver for the JCR and MCR, as well as other college members and societies.

Positions of Responsibility

Trustee of the Tolkien Society (registered charity number 273809) 1999–2009; Chairman 2008–2009
Chaired the Student-Run Computing Facility
Former secretary of the Cambridge Beer Festival and musical director of the Cambridge University Troubadours.

References

Available on request.

Coventry, March 13, 2009