

## WORKSHOPS

### ECOLOGICAL NICHE MODELLING AND RISK MAPPING WITH MAXENT

**Kim Stevens**

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### GENOMIC CLUES TO EPIDEMIC STORIES: EXPLORING DISEASE DYNAMICS WITH PHYLODYNAMICS

**Claire Guinat**

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### RISK ASSESSMENT WITH R AND QUANTRRA

**Pablo Gomez-Vazquez and Beatriz Martinez-Lopez**

[jppo@ucdavis.edu](mailto:jppo@ucdavis.edu) and [beatrizmartinezlopez@ucdavis.edu](mailto:beatrizmartinezlopez@ucdavis.edu)

### CONFIDENTLY INTERPRETING CONFIDENCE INTERVALS USING CONFIDENCE INTERVAL FUNCTIONS

**Locksley Messam**

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### GAMIFICATION IN EDUCATION OF VETERINARY EPIDEMIOLOGY – THE OUTBREAK INVESTIGATION GAME

**Arvo Viltrop**

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### INTERACTIVE AND SOCIAL LEARNING APPLIED TO ONE HEALTH CHALLENGES: WHEN AND HOW TO USE THEM?

**Helena De Carvalho Ferreira, Fanny Baudoin and Ilias Chantziaras**

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### **Conference organised by**

Jenny Frössling and team on behalf of SVEPM



SOCIETY FOR VETERINARY EPIDEMIOLOGY AND PREVENTIVE MEDICINE  
2024 ANNUAL CONFERENCE  
WEDNESDAY 20<sup>th</sup> MARCH – FRIDAY 22<sup>nd</sup> MARCH 2024  
UPPSALA, SWEDEN

WEDNESDAY 20<sup>th</sup> MARCH 2024

09.30 – 12.00

### WORKSHOPS

**Workshop 1: Confidently Interpreting Confidence Intervals using Confidence Interval Functions**

**Workshop 2: Risk assessment with R and QuantRRA**

**Workshop 3: Ecological niche modelling and risk mapping with Maxent**

**Workshop 4: Gamification in education of veterinary epidemiology – the Outbreak Investigation Game (OIG)**

**Workshop 5: Genomic clues to epidemic stories: exploring disease dynamics with phylodynamics**

**Workshop 6: Interactive and social learning applied to one health challenges: when and how to use them?**

12.00 – 13.00

LUNCH

### **Session 1**

**Chair: Dave Brodbelt**

### **OPENING OF THE CONFERENCE**

13.00 – 14.00 **Keynote**

**Dr Thomas Schön, Uppsala University**

On the state of machine learning research - where are we today

### **Session 2**

**Chair: Katja Schulz**

### **SURVEILLANCE**

14.00 – 14.25 **Bushby**

Using feeding, movement, and social behaviours from sensor data to predict respiratory disease pre-weaned calves.

14.25 – 14.50 **Hayes\***

Optimizing surveillance strategies of highly pathogenic avian influenza in live bird markets across southeast Asia

14.50 – 15.05

5 x 2-minute poster pitches

15.05 – 15.45

COFFEE / TEA & POSTER VIEWING

### **Session 3**

**Chair: Luis Carmo**

### **CATTLE**

15.45 – 16.10 **Paarlberg\***

Elevating youngstock rearing practices: insights from KalfOK data and farmer perspectives in the Netherlands

16.10 – 16.35 **Paucar-Quishpe\***

Adaptive farming strategies after chemical control failure: a cross-sectional study in subtropical Ecuadorian dairy farms

16.35 – 17.00 **Eyango Tabi\***

Deep mechanistic model: Integrating deep learning and stochastic mechanistic approaches for Bovine Respiratory Diseases diagnosis and epidemiological forecasting

17.00 – 17.15

5 x 2-minute poster pitches

17.15 – 18.00

POSTER VIEWING

20.00

DINNER

THURSDAY 21<sup>ST</sup> MARCH 2023

**Session 4**

**Chair: Carla Gomes**

- 09.00 – 09.25 **Glavind** Is the health poor in finishing pig herds assigned a Yellow Card?
- 09.25 – 09.50 **Moya\*** "Implementation of bio...what?": Subjectivities of farm workers between conflicts with and instructions from farmers on dairy cattle farms
- 09.50 – 10.05 5 x 2-minute poster pitches
- 10.05 - 10.30 COFFEE / TEA & POSTER VIEWING

**Session 5**

**Chair: Timothée Vergne**

- 10.30 - 10.55 **Mendes\*** An epidemiological-economic modelling framework to estimate production losses attributable to livestock brucellosis in endemic settings and the potential benefits of disease control
- 10.55 - 11.20 **Duarte** Cost evaluation of the implementation of biosecurity measures in dairy farms
- 11.20 – 11.35 5 x 2-minute poster pitches
- 11.35 – 13.00 ANNUAL GENERAL MEETING
- 13.00 – 14.00 BUFFET LUNCH

**Session 6**

**Chair: Egil Fischer**

- 14.00 – 14.25 **Savagar\*** Modelling the impact of heterogeneity in small ruminant populations on peste des petits ruminants virus (PPRV) transmission and the effectiveness of vaccination for eradication.
- 14.25 – 14.50 **Chang\*** A multi-host and multi-route transmission model to assess the effect of control measures on bTB dynamics in Ireland
- 14.50 – 15.15 **Rasmussen** Can the Danish Veterinary Authorities meet their key performance indicator targets in the event of a foot-and-mouth disease outbreak?
- 15.15 – 15.30 5 x 2-minute poster pitches
- 15.30 – 16.15 COFFEE / TEA & POSTERS

**Session 7**

**Chair: Femanda Dorea**

- 16.15 – 16.40 **Machado** Analyzing the intrastate and interstate swine movement network in the United States
- 16.40 – 17.05 **Conrady** Impacts of cattle movement network activities on the spread of Salmonella Dublin between cattle farms in Denmark between 2010 and 2020
- 17.05 – 17.30 **Guinat** Exploring density and distance effects on H5N8 spread in Southwestern France using a Bayesian phylodynamic framework
- 17.30 – 18.00 POSTER VIEWING
- 20.00 - late ANNUAL CONFERENCE DINNER

**BIOSECURITY**

**ECONOMICS**

**INTERVENTION EVALUATION**

**DISEASE TRANSMISSION**

FRIDAY 22<sup>ND</sup> MARCH 2023

**Session 8**

**Chair: Philip Robinson**

- 09.00 – 09.25 **De Wit** Uncovering mechanisms behind the spatial-temporal emergence of Usutu virus in the Netherlands
- 09.25 – 09.50 **Desvars-Larrive** Zoonoses in Austria: a comprehensive assessment based on published literature, 1975-2022.
- 09.50 – 10.15 **Delecroix** The value of multivariate indicators of resilience in early warning for infectious disease outbreaks: a West Nile Virus case study
- 10.15 – 10.45 COFFEE / TEA & POSTERS

**Session 9**

**Chair: Locksley Messam**

- 10.45 – 11.10 **Allen** Risk factors for race-related fatality in jump racing Thoroughbreds in Great Britain (2010-2023)
- 11.10 – 11.35 **Fabri** Risk factors for the introduction of Salmonella spp. in dairy herds
- 11.35 – 12.00 **Olsen** Quantifying human toxoplasmosis risk from pork consumption in Denmark: A conceptual framework for tissue cyst-based analysis

**Session 10**

**Chair: Dave Brodbelt**

- 12.00 – 12.45 **Dr Lis Alban, Danish Agriculture and Food Council**  
The Danish model for collaboration in animal health and food safety
- 12.45 – 13.00 CLOSE OF THE CONFERENCE
- 13.00 – 14.00 BUFFET LUNCH

*\* The presenter is in the contest for the award for best presentation by an early career scientist. The award is sponsored by Scotland's Rural College.*

For further information, please contact:  
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Uppsala, Sweden  
20<sup>th</sup> March – 22<sup>nd</sup> March 2024