

ARATA HIDANO

DVM, MSc, PhD, DLSHTM

Epidemiology, Infectious disease modelling, Behavioural change

Please see full 20 publications at [Google scholar](#)

EDUCATION

2014
|
2018

Massey University

PhD in Veterinary Epidemiology 📍 Palmerston North, New Zealand

Thesis: Optimising the use of new data streams for making epidemiological inferences in veterinary epidemiology

2010
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2011

University of London (LSHTM/RVC)

MSc in Veterinary Epidemiology 📍 London, United Kingdom

Thesis: Risk factor associated with bovine leukemia virus seropositivity in dairy and beef farms in Japan

2004
|
2010

Hokkaido University

Doctor of Veterinary Medicine 📍 Sapporo, Japan

Thesis: The role of neutrophil in *Anaplasma phagocytophilum* transmission from Ixodes ticks

RESEARCH EXPERIENCE

2012
|
2012

Graduate Research Assistant

University of Prince Edward Island 📍 Charlottetown, Canada

- Exploring the data reduction methods on large data from motion sensors attached on cattle to identify abnormal animal behaviours due to parasitic diseases
- Application of Bayesian Belief Network on salmon sealice data to identify key factors associated with misclassifications of sealice species

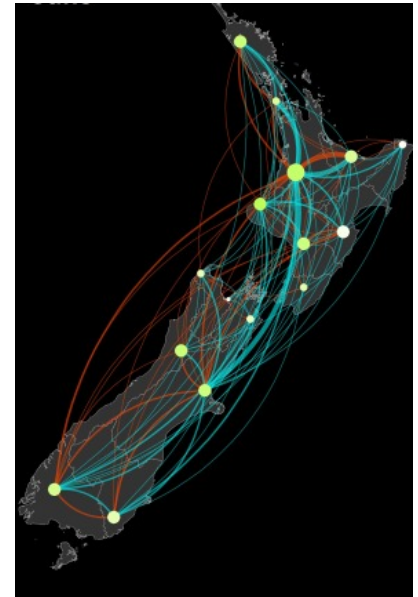
2011
|
2012

Graduate Research Assistant

Massey University 📍 Palmerston North, New Zealand

- Risk factor for culling and death in New Zealand dairy cows, 2000-2011
- Investigation of risk factors associated with bovine enzootic haematuria in the Kingdom of Bhutan

PROFESSIONAL EXPERIENCE



CONTACT INFO

✉ aratahidano@gmail.com

🐦 [arata_hidano](#)

🔗 github.com/arata-hidano

SKILLS

Highly experienced in

Disease transmission model
Study/sampling design
Statistical modelling
Qualitative interview/analysis

Highly skilled in

R/C/STATA/JAGS/OpenBugs
BEAST
PostgreSQL

*This resume was made with the
R package [pagedown](#).*

Last updated on 2019-10-11.

2018
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Now

Postdoctoral fellow

Massey University

📍 Palmerston North, New Zealand

- Modelling Mycoplasma bovis dynamics within farm using an agent-based model
- Statistical inferences using Approximate Bayesian Computation framework
- Teaching Infectious disease modelling and network analysis in postgraduate levels

2012
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2014

Research fellow

National Institute of Animal Health

📍 Tsukuba, Japan

- Antimicrobial resistance surveillance in farm and retail products
- Application of Additive Bayesian Network analysis to antimicrobial resistance gene data
- Diagnostic test accuracy estimations using Bayesian latent class analysis
- Demographic and behavioural pattern analysis on domestic dogs in Japan to inform rabies vaccination policy



TEACHING EXPERIENCE

2019

Introduction to Infectious disease modelling

Delivered 3 day lectures to introduce essential concepts and programming skills

📍 Palmerston North, New Zealand

2018

Advanced statistical analysis

Delivered 2 day lectures on multi-level and count regression models

📍 Palmerston North, New Zealand

2018

Diagnostic test evaluation workshop

Tutor of 3 days workshop on diagnostic test and evaluating its accuracy

📍 Chiang Mai, Thailand

2017

FAO-APHCA/OIE Regional Technical Workshop on the Prevention and Control of Animal Brucellosis and Tuberculosis in Asia

Consultant to deliver lectures on epidemiology and control of neglected zoonotic diseases. See details [here](#)

📍 Bangkok, Thailand



SELECTED RECENT PUBLICATIONS

2019

Assessing biases in phylodynamic inferences in the presence of super-spreaders

Vet Res (2019) 50: 74







📄 [Download a PDF of this paper](#)

Hidano A, Gates MC.

- 2019 **Farmers' Decision Making on Livestock Trading Practices: Cowshed Culture and Behavioral Triggers Amongst New Zealand Dairy Farmers**
Front Vet Sci. (2019) 6:320
[Download a PDF of this paper](#)
Hidano A, Gates MC, Enticott G.
- 2019 **Why sold, not culled? Analysing farm and animal characteristics associated with livestock selling practices**
Prev Vet Med. (2019) 166:65-77
[Download a PDF of this paper](#)
Hidano A, Gates MC.
- 2018 **Modeling dynamic human behavioral changes in animal disease models: challenges and opportunities for addressing bias**
Front Vet Sci. (2018) 5:137
[Download a PDF of this paper](#)
Hidano A, Enticott G, Christley RM, Gates MC.



AWARD AND GRANT

- 2019 **Massey University Strategic Funding**
NZD 5,000  Palmerston North, New Zealand
- 2017 **Best poster award**
Annual conference of Society for Veterinary Epidemiology and Preventive Medicine
 Inverness, United Kingdom
- 2016 **Kathleen Spragg Agricultural Research Trust**
NZD 12,000  Palmerston North, New Zealand
- 2016 **Wellcome Trust Workshop Bursary**
Supported to attend Wellcome Trust Mathematical Modelling workshop
 Cambridge, United Kingdom
- 2014 **JASSO scholarship**
NZD 100,000  Ministry of Education, Japan
- 2010 **Heiwa Nakajima scholarship**
NZD 78,000  Heiwa Nakajima Foundation, Japan