

# Mathieu Pruvot, DVM, PhD

**Email:** mpruvot@wcs.org

**Birth date:** November 3<sup>rd</sup>, 1983

**Citizenship:** French

**Languages:** French, English

## **In brief:**

I am a veterinary epidemiologist and disease ecologist. My primary research interests include disease transmission at the wildlife-livestock interface, the effect of anthropogenic activities on the ecology of zoonotic diseases and ecosystem health, the improvement of global wildlife health surveillance capacity, and the linkages between health and conservation.

## **Use these shortcuts to the section of interest:**

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## **Professional experiences**

**July 2020- present**                      **Assistant Professor**, University of Calgary – Faculty of Veterinary Medicine, Calgary, AB, Canada  
**Affiliate scientist**, Wildlife Conservation Society, Bronx, NY, USA

**March 2018- June 2020**                **Wildlife Epidemiologist**, Wildlife Conservation Society, Fort Collins, CO, USA  
**Affiliate Faculty**, Fish, Wildlife, and Conservation Biology Department, Colorado State University, Fort Collins CO, USA

- Research:
  - Wildlife trade, bushmeat consumption and risk of zoonotic diseases
  - Effect of deforestation on rodent community and zoonotic pathogens
  - PPR-virus at the interface between livestock and wild ungulates in Mongolia
- Development of wildlife disease surveillance networks in Southeast Asia
- Teaching FW467 Wildlife Disease Ecology at CSU

**2014-2018**                                **Wildlife Health Project Lead**, Wildlife Conservation Society, Phnom Penh, Cambodia

- Led a EU-funded One Health project '*LACANET, Development of a Lao PDR-Cambodia One Health surveillance and laboratory network*', including:
  - Development of wildlife surveillance networks in Cambodia and Lao PDR
  - Research focused on drivers for disease emergence:
    - Rodent-borne and vector-borne zoonotic diseases along a deforestation gradient in Cambodia
    - Zoonotic diseases from Lao PDR domestic wildlife trade and bushmeat consumption
- Management of WCS Wildlife Health Program (WHP) teams in Cambodia and Lao PDR

**2009-2014**                                **Doctoral candidate**, University of Calgary, Faculty of Veterinary Medicine (UCVM), Calgary, AB, Canada

- Study of the occurrence of livestock pathogen in free-ranging elk and beef cattle in southwestern Alberta
- Diagnostic test evaluation and modification for the application of various livestock pathogen tests on free-ranging elk
- Interviews with beef cattle ranchers to collect local knowledge on elk and cattle interactions and ranch management, using participatory techniques
- Spatial data analysis to identify the possible role of dilution effect and migration escape in the distribution of *Fascioloides magna* in elk
- Spatio-temporal patterns of interaction between cattle and elk
- Agent-based modelling of inter-species pathogen transmission between cattle and elk in southwest Alberta

**March to June 2009**                    **MSc Student**, Center for Animal Disease Modelling and Surveillance, UC Davis, California, USA, (Advisor: Prof. Tim E. Carpenter)

- Mortality data analysis: Inference on low pathogenic Avian Influenza transmission parameters using partially observed Markov processes and likelihood maximization by particle filtering.

**April to September 2008**      **Internship for CEAV and veterinary thesis**, Centre International de Recherche en Agriculture pour le Développement (CIRAD), Department of parasitology, Kasetsart University, Bangkok, Thailand (Advisor: Dr Marc Desquesnes)

- Comparative evaluation of DNA extraction and PCR primers for the detection of *Trypanosoma evansi*
- Data analysis of Thai dairy cattle survey of *T. evansi*

**July/August 2007**      **DVM Internship** at National Zoonoses and Food Hygiene National Research Centre (NZFHRC), Kathmandu, Nepal, (Advisor: Dr D.D. Joshi)

- *Trichinella sp.* prevalence study in pig slaughterhouses in Kathmandu Valley
- Contributed to study on human cysticercosis in rural households

**April 2005**      **DVM Internship** at CIRDES/CIRAD, Bobo Dioulasso, BURKINA FASO (Advisor: Dr Jérémy Bouyer)

- Indoor experiments on Tse-tse flies (*Glossina spp.*) investigating trophic behavior and host preference.
- Field trapping of Tse-tse flies

**2002**      Participation in a captive white rhino reproduction project in Plaisance-du-Touch zoo, France

- Literature review of factors affecting reproduction in captivity
- Behavioural observations

## **Education and trainings**

**2009-2014**

**Doctor of Philosophy (PhD), Faculty of Veterinary Medicine, University of Calgary,** Eco-epidemiology of production limiting diseases at the wildlife-livestock interface: beef cattle and elk in southwestern Alberta, Canada.

**PhD coursework:**

- Spatial Data Analysis
- Global Health and Development
- Professional Skills in Health Science Research
- 'Research in Progress' Seminar

Mar. 26<sup>th</sup> 2014

**Spatial Analysis In Epidemiology: An Introduction** (instructor: Drs Dirk Pfeiffer and Kim Stevens), SVEPM conference workshop, Dublin, Ireland

Apr. 17<sup>th</sup> -19<sup>th</sup> 2013

**Bayesian analysis workshop** (instructor: Dr Ian Gardner), University of Calgary

Dec. 3<sup>rd</sup>-6<sup>th</sup> 2012

**Disease Modeling Symposium and Workshop**, University of Calgary

July 16<sup>th</sup>-20<sup>th</sup> 2012

**Quantitative Risk Analysis in Epidemiology** (instructor: Dr Francisco Zagmutt, EpixAnalytics), University of Calgary.

August 22<sup>nd</sup>-26<sup>th</sup> 2011

**Agent-Based Modeling bootcamp for health researchers** (instructor: Dr Nathaniel Osgood), University of Saskatoon, Saskatchewan.

**2008-2009**

**Master of Science (MSc) in epidemiology and biostatistics,** University of Montpellier, France.

MSc Coursework: Epidemiology, statistics, data analysis, modeling, spatial analysis.

Four month internship at Center for Animal Disease Modeling And Surveillance (CADMS), UC Davis, California, USA (advisor: Pr. Tim Carpenter).

**2007-2008:**

**CES (Certificate of Specialized Education) in animal epidemiology (theoretical part), National Veterinary school of Maison-Alfort (Paris, France)**

Coursework: Statistics, descriptive and analytic epidemiology, epidemiological survey, disease control.

**CEAV (Certificate of Advanced Veterinary Education) in animal pathologies in tropical zones, National Veterinary School of Toulouse (France) and CIRAD.**

Coursework: Epidemiological surveillance, Data Management, Geographic Information System, Epidemiology of tropical diseases.

**2003-2008**

**Doctor in Veterinary Medicine (DVM),** National Veterinary School of Toulouse/University of Toulouse III,

February 2009

**Defense of veterinary thesis:** received Honor and thesis award.

June 2007

***Diplôme d'Etudes Fondamentales Vétérinaires (DEFV): Diploma of fundamental veterinary studies– National Veterinary School of Toulouse, FRANCE***

Training and certification equivalent to NAVLE.

Due to qualify as a DVM after defense of the veterinary thesis

**June 2003**

**National Competitive Examination to enter French National Veterinary Schools**

Ranked 30 out of 1500 candidates.

**2002-2003**

**Saint-Louis - Pre-Veterinary School – Paris, FRANCE**

**2001:**

***Baccalauréat Scientifique*** (High school diploma, science option) with Honors (equivalent to the A level)

**Additional trainings**

**2017**

Advanced Wildlife Pathology Training, Vientiane, Lao PDR

**2015**

“Negociation and Mediation Workshop”, Phnom Penh, Cambodia

**2013**

“Trustbuilding Workshop”, Initiative of Change, Calgary, Alberta, Canada

**2011**

“Conflict resolution Workshop”, Calgary Center for Global Community, Calgary, Alberta, Canada

## **Publications**

### **Peer-reviewed in preparation:**

### **Peer-reviewed:**

- Nguyen Quynh Huong, Nguyen Thi Thanh Nga, Nguyen Van Long, Bach Duc Luu, Alice Latinne, **Mathieu Pruvot**, Nguyen Thanh Phuong, Le Tin Vinh Quang, Vo Van Hung, Nguyen Thi Lan, Nguyen Thi Hoa, Phan Quang Minh, Nguyen Thi Diep, Nguyen Tung, Van Dang Ky, Scott I. Robertson, Hoang Bich Thuy, Nguyen Van Long, Martin Gilbert, Leanne Wicker, Jonna A. K. Mazet, Christine Kreuder Johnson, Tracey Goldstein, Alex Tremeau-Bravard, Victoria Ontiveros, Damien O. Joly, Chris Walzer, Amanda E. Fine, Sarah Helen Olson. (2020). Coronavirus testing indicates transmission risk increases along wildlife supply chains for human consumption in Viet Nam, 2013-2014. *PlosOne*.
- Philavong, C., **Pruvot, M.**, Reinharz, D., Mayxay, M., Khammavong, K., Milavong, P., Rattavong, S., Horwood, P., Dussart, P., Douangngeun, B., Theppangna, W., Fine, A.E., Robinson, M., Newton, P., (in press) Perception of health risks in vendors of vegetable, livestock meat, and wildlife meat in Lao markets *Zoonoses and Public Health*
- Fine, A.E., **Pruvot, M.**, Benfield, C., Caron, A., Cattoli, G., Chardonnet, P., Dioli, M., Dulu, T., Gilbert, M., Kock, R.A., Mariner, J.C., Ostrowski, S., Parida, S., Fereidouni, S., Shiilegdamba, E., Sleeman, J., Schulz, C., Soula, J.-J., Van der Stede, Y., Tekola, B.G., Walzer, C. and Njeumi, F. (2020) Eradication of peste des petits ruminants virus and the wildlife-livestock interface *Frontiers in Veterinary Science*
- **Pruvot, M.**, Musiani, M., Boyce, M., Kutz, S., Orsel, K. (2020) Integrating livestock management and telemetry data to assess disease transmission risk between wildlife and livestock. *Preventive Veterinary Medicine*
- **Pruvot, M.**, Fine, A.E., Strindberg, S., Damdinjav, B., Buuveibaatar, B., Chimeddorj, B., Bayandonoj, G., Khishgee, B., Sandag, B., Narmandakh, J., Jargalsaikhan, T., Bataa, B., Hollinger, C., McAloose, D., Shatar, M., Basan, G., Mahapatra, M., Selvaraj, M., Parida, S., Njeumi, F., Kock, R., Shiilegdamba, E., (2020) Outbreak of Peste des Petits Ruminants in Wild Ungulates, Mongolia, 2016-2017. *Emerging Infectious Diseases*
- **Pruvot, M.** Khammavong, K., Milavong, P., Philavong, C., Reinharz, D., Mayxay, M., Rattavong, S., Horwood, P., Dussart, P., Douangngeun, B., Theppangna, W., Fine, A.E., Olson, S.H., Robinson, M., Newton, P. (2019) Toward a quantification of risks at the nexus of conservation and health: the case of bushmeat markets in Lao PDR. *Science of the Total Environment* 676:732-745.
- **Pruvot, M.**, Cappelle, J., Furey, N., Hul, V., Sreang Heng, H., Duong, V., Dussart, P., Horwood, P., (2019) Extreme temperature events and mass mortality of insectivorous bats. *European Journal of Wildlife Research* 65:41
- Aguilar, X.F., Fine, A.E., **Pruvot, M.**, Njeumi, F., Walzer, C., Kock, R., Shiilegdamba, E., (2018). PPR virus threatens wildlife conservation. *Science* 362, 165–166.
- Loveridge, R., Ryan, G.E., Sum, P., Grey-Read, O., Mahood, S.P., Mould, A., Harrison, S., Crouthers, R., Ko, S., Clements, T., Eames, J.C., **Pruvot, M.**, (2018) Poisoning causing the

decline in South-East Asia's largest vulture population. Bird Conservation International 1–14.

- Fillieux, C., Chea, S., Ramassamy, J.-L., Hul, V., Olson, S., Fine, A., Dussart, P., Phipraphi, W., Horwood, P., **Pruvot, M.**, (2017) Assessment of rodent communities in two provinces of Cambodia. Cambodian J. Nat. Hist. 2017(2), 147–152
- Seimon, T.A., Horne, B.D., Tomaszewicz, A., **Pruvot, M.**, In, S., Chea, S., Brook, S., Heng, S., Platt, S., Toledo, P., McAloose, D., Calle, P. (2017) Disease Screening In Southern River Terrapins (*Batagur affinis edwardmollii*) in Cambodia, Journal of Zoo and Wildlife Medicine 48(4):1242-1246
- **Pruvot, M.**, Morand, S., (2016) Links between biodiversity and health: consequences and opportunities for collaboration (*Guest Editorial*), Cambodian Journal of Natural History 2016 (2).
- **Pruvot, M.**, Lejeune, M., Kutz, S., Massolo, A., Musiani, M., Orsel, K., (2016) Better alone or in ill company? The effect of migration and inter-species comingling on *Fascioloides magna* at the interface between cattle and elk. PlosOne 11(7): e0159319.
- Forde, T., **Pruvot, M.**, De Buck, J., & Orsel, K. (2015). A high-morbidity outbreak of Johne's disease in game-ranched elk. The Canadian Veterinary Journal, 56(5), 479–483.
- **Pruvot, M.**, Seidel, D., Kutz, S., Musiani, M., Massolo, A., Boyce, M., Orsel, K., (2014) What attracts elk onto beef cattle pastures? Implications for inter-species disease transmission. Prev Vet Med 117:326-339
- **Pruvot, M.**, Kutz, S., M., Barkema, H.W., De Buck, J., Orsel, K., (2014) Occurrence of *Mycobacterium avium* subsp. *paratuberculosis* and *Neospora caninum* in Alberta cow-calf operations. Prev Vet Med 117:95-102
- **Pruvot, M.**, Kutz, S., Musiani, M., Massolo, A., Orsel, K., What attracts elk onto beef cattle pastures: a distribution modelling approach to wildlife-livestock contact structure. Proceeding of the 2014 conference of the Society for Veterinary Epidemiology and Preventive Medicine (SVEPM).
- **Pruvot, M.**, Kutz, S., van der Meer, F., Musiani, M., Barkema, H.W., Orsel, K., (2013) Pathogens at the livestock-wildlife interface in Western Alberta: does transmission route matter? Veterinary Research 45:18 doi:10.1186/1297-9716-45-18
- **Pruvot, M.**, Hutchins, W., Orsel, K., (2013) Evaluation of a commercial competitive ELISA for detection of *Neospora caninum* antibodies in elk (*Cervus canadensis*) in the absence of a gold standard, Parasitology Research 10.1007/s00436-014-3951-4
- **Pruvot, M.**, Forde, T.L., Steele, J., Kutz, S.J., De Buck, J., Van der Meer, F., Orsel, K., (2013) The modification and evaluation of an ELISA test for the surveillance of *Mycobacterium avium* subsp. *paratuberculosis* infection in wild ruminants, BMC Veterinary Research, 9:5
- Devleesschauwer, B., **Pruvot, M.**, Joshi, D.D., De Craeye, S., Jennes, M., Ale, A., Welinski, A., Lama, S., Aryal, A., Victor, B., Duchateau, L., Speybroeck, N., Vercruyse, J., Dorny, P., (2013) Seroprevalence of zoonotic parasites in pigs slaughtered in the Kathmandu Valley of Nepal, Vector borne and zoonotic diseases, Food-Borne and Zoonotic Diseases
- **Pruvot, M.**, Kamyinkird, K., Desquesnes, M., Sarataphan, N., Jittapalapong, S., (2012) The effect of the DNA preparation method on the sensitivity of PCR for the detection of *Trypanosoma evansi* in rodents and implications for epidemiological surveillance efforts, Vet Parasitol 191(3-4):203-8

- **Pruvot, M.**, Kamyinkird, K., Desquesnes, M. et al., A comparison of six primer sets for detection of *Trypanosoma evansi* by polymerase chain reaction in rodents and Thai livestock. Vet. Parasitol. (2010), doi:10.1016/j.vetpar.2010.04.001
- Desquesnes, M., Kamyinkird, K., Pruvot, M. et al. (2009). "Antibody-ELISA for *Trypanosoma evansi*: Application in a serological survey of dairy cattle, Thailand, and validation of a locally produced antigen." Prev Vet Med 26: 26.
- Bouyer, J., **Pruvot, M.**, Bengaly, Z., Guerin, P.M. and Lancelot, R. (2007). Learning influences host choice in tsetse. Biol Lett. 3(2):113-6

### **Reports and Policy documents**

- **Policy document:** Lao PDR Wildlife Health Surveillance Standard Operating Procedures Draft, following on the Wildlife Health Surveillance workshop, February 2017
- **Policy document:** Cambodia Wildlife Health Surveillance Standard Operating Procedures Draft, following on the Wildlife Health Surveillance workshop, October 2016
- **Policy document:** Contribution to Environmental Code for the Ministry of Environment, for aspects related to wildlife health monitoring, September 2016.
- **Surveillance Report:** Carbofuran Poisoning at the Interface between Wildlife, Livestock and Humans, June 2016.
- **Surveillance Report:** Bat Die-off in Banteay Srey District, Siem Reap, Cambodia, April 2016
- **Briefing Note:** Wildlife health: a greatly overlooked aspect of biodiversity monitoring. WCS Cambodia Internal Briefing Note, March 2016
- **Policy Paper:** Contribution to Wildlife Farming Policy paper, March 2015
- **Donor Reports:** LACANET Interim report Year 1, Year 2, Year 3 and Year 4, (2015-2018)

### **Other non-peer-reviewed publications**

- **Pruvot, M.** (2014) Eco-epidemiology of production limiting diseases at the wildlife-livestock interface: beef cattle and elk in southwestern Alberta, Canada. PhD Thesis (Faculty of veterinary Medicine, University of Calgary, Alberta, Canada)
- **Pruvot, M.** (2009) "Diagnostic de *Trypanosoma evansi*: Mise en place, standardisation et évaluation d'outils de PCR et d'Ac-ELISA, Application à une étude préliminaire chez le bovin laitier en Thaïlande", Veterinary Thesis (National veterinary college of Toulouse-CIRAD).
- **Pruvot, M.** (2009) "Mortality data analysis of a Low pathogenic avian influenza outbreak H6N2 in a commercial poultry layer farm in California: Modelling of the epidemic with a partially observed Markov process and parameters inference via an iterative particle filtering algorithm", Master degree thesis (Université de Montpellier- University of California, Davis, CA, USA).



## Teaching and supervision

### Courses

- **Lecturer for FW467 Wildlife Disease Ecology**, Colorado State University, Fall 2019
- **Guest Lecturer for PBHL 540 One Health** – an interdisciplinary approach to public health, Colorado State University, Fall 2019
- **Guest lecturer for VM603**, Colorado State University, September 2018
- **Guest lecturer for FW467/567**, Colorado State University, September 2018
- **Guest Lecturer for InterRisk MSc Year 1**, Wildlife disease surveillance, Bangkok, Thailand
- **Instructor** of InterRisk MSc Year 1 curriculum for Cambodian staff in the preparation for Master program enrolment, 2016
- **Lecturer for VM407 Professional Skills II**, Faculty of Veterinary Medicine, University of Calgary, Canada. Special theme: The role of veterinarians in conflict resolution and peace-building. Initiated the introduction of the topic in the course, created the material, gave lecture and organized scenario simulations. Jan 2012
- **Graduate Teaching Assistant for VETM 605: Research Design and Methods in the Health Sciences**. Faculty of Veterinary Medicine, University of Calgary, Canada. Supported main instructor during lectures, co-organized and animated data analysis labs and tutorials, held office hours to support students having questions or requesting guidance, designed exams and marked assignments. Winter 2012
- **Guest lecturer for VETM 344: Principles of Epidemiology**. Faculty of Veterinary Medicine, University of Calgary, Canada. Classroom lectures developed and delivered. Spring 2011
- **Teaching assistant for VM463: Field course in Ecosystem Health**, Faculty of Veterinary Medicine, University of Calgary, Canada. Contacted field partners, organized discussion session with local field partners, organized field activities, created and delivered lectures, and organized scenario simulations. Feb 8-12th 2010. (reference available upon request)
- **Teaching assistant for field course EVDS 683.64: Ecological design and management of regional and cultural landscapes**, Environmental Science master program, University of Calgary, Canada. Supported main instructor with local knowledge of the field site, coordinated visits to local partners. March 22nd 2010.

### Student supervision:

- Modelling of Peste des petits ruminants in the ungulate community in Mongolia, Pietro Hughes, Bachelor student, University of Oxford, May 2019-May 2020
- Development of video training for wildlife outbreak investigation and wildlife necropsies, Laurel Myers, **DVM student** (University of Wisconsin), January-February 2020
- Multi-criteria evaluation of spillover risk between livestock and saiga in Mongolia, Laureline Nacer, **MSc student**, January 2019-June 2019
- Evaluation of a pilot wildlife health surveillance network in Cambodia, Sokha Chea, **MSc student**, September 2017-August 2019
- Deforestation and mechanisms of pathogen emergence, *Leptospira* as a model, Caroline Fillieux, **MSc student**, January-June 2017

- Effect of deforestation on rodent community change and risk of leptospirosis infection, Jill-lea Ramassamy, **MSc student**, June-November 2016
- Effect of deforestation on rodent community and rodent pathogens, Jill-lea Ramassamy, **DVM student research internship**, June-September 2015
- Prevalence of *Dicrocoelium dendriticum* in elk and cattle fecal samples in south-western Alberta. Franca van der Woude, **DVM student, research internship**.
- Prevalence of *Fasciolides magna* in elk fecal samples in Southwestern Alberta, Canada. Lodi Lameris, **DVM student, research internship**.
- *Fascioloides magna* and *Dicrocoelium dendriticum* in elk in southwest Alberta : a descriptive pilot study based on modified sedimentation techniques of elk fecal samples. Emmanuelle Cottin, **DVM student, research internship**.

### Trainings

- **Instructor** of multiple trainings on wildlife disease surveillance in Cambodia and Laos (2014-2018)
- **Instructor** of Field team trainings, theoretical and practical preparation for land-use change study, Cambodia, May 2015, January 2016, May 2016, January 2017
- **Instructor** of Wildlife Health Surveillance, Forest ranger trainings, Cambodia, Multiple trainings between January 2015 to present
- **Instructor** of “Rodent sampling and necropsy training” workshop, Phnom Tamao, Cambodia, Feb 2015

### Workshops

- **Facilitator** of Inter-ministerial Wildlife Health Surveillance workshop, Vientiane, Lao PDR, July 2017
- **Facilitator** of Inter-ministerial Wildlife Health Surveillance workshop, Phnom Penh, Cambodia, October 2016
- **Facilitator** of Inter-Sectoral One Health communication workshop, Vientiane, Lao PDR, Feb 2015
- **Facilitator** of Inter-Sectoral One Health communication workshop, Phnom Penh, Cambodia, Feb 2015
- **Instructor** in “Diagnostic of *Trypanosoma evansi*” workshop, Department of parasitology, Faculty of veterinary medicine, Kasetsart University, Bangkok, Thailand. Contributed to general organization, contributed to lecture material, organized laboratory tutorial. June 2008

## Conference and presentations

### Oral presentations

- **Pruvot, M.** Veterinary Science as critical tool for conservation – Final presentation, Wildlife Conservation Society Canada, Toronto, ON.
- **Pruvot, M.** Connecting the dots: One Health Solutions to Complex Socio-ecological systems, University of Calgary Seminar 2019, Calgary, AB, Canada
- Fine, A., Shiilegdamba E., Mariner J., Kock R., **Pruvot, M.**, Sodnom, B., Narmandak, J. Simple Solutions, Complex Path: Utilizing participatory epidemiology to halt the PPR virus epidemic in livestock and endangered wildlife on the Mongolian Steppe , Conference of the Wildlife Disease Association, August 2019, Tahoe, CA, USA
- **Pruvot, M.** Linking Health and Conservation in Asia, Colorado state University, Department of Fish Wildlife and Conservation biology seminar, September 2018, Fort Collins, CO, USA
- **Pruvot, M.** Developing sustainable wildlife disease surveillance in Southeast Asia, Conference of the Wildlife Disease Association, August 2018, St Augustine, FL, USA
- **Pruvot, M.**, Ramassamy, J.-L., Chea, S., Hul, V., Olson, S.H., Fine, A., Dussart, P., Horwood, P., Deforestation, rodent community and leptospirosis in Cambodia, IECID2017, Trieste, Italy.
- **Pruvot, M.**, Linking One Health and Conservation, experience from Southeast Asia, WCS Lunchtime Talk, December 2016, Bronx Zoo, NY, USA
- **Pruvot, M.**, Poisoning at the interface between wildlife, livestock and humans, TEPHINET regional conference, November 2016, Siem Reap, Cambodia
- **Pruvot, M.**, LACANET Wildlife Health Surveillance, Inter-Ministerial Wildlife Health Surveillance Workshop, October 2016, Phnom Penh, Cambodia
- Khammavong, K., Milavong, P., Fine, A.E., Greateorex, Z.F., Olson, S.H., Singhalath, S., Silithammavong, S., Weisman, W., Douangngeun, B., Theppangna, W., Keatts, L., Hansel, T., Zimicki, S., O'Rourke, K., O. Joly, D., Mazet, J.A.K., **Pruvot, M.**, Past and current monitoring of the zoonotic disease risk associated with wildlife trade in markets and other wildlife-human interfaces in Lao PDR, 2<sup>nd</sup> One Health Symposium, Lao PDR, September 2016
- **Pruvot, M.**, Khammavong, K., Chea, S., LACANET Year 2 progress in Lao PDR and Cambodia, Result Oriented Monitoring (ROM) of the European Union Commission, September 2016
- **Pruvot, M.**, LACANET progress report, LACANET 3<sup>rd</sup> Annual meeting, July 2016, Bangkok, Thailand
- **Pruvot, M.**, Horwood, P., Chea, S., Olson, S., Fine, A., Dussart, F., Deforestation and zoonotic diseases in Cambodia, 2<sup>nd</sup> Symposium "Biodiversity and Health in Southeast Asia", July 2016, Bangkok, Thailand
- **Pruvot, M.**, Sarus Crane and Potential Health Risks. Saving the Eastern Sarus – Action plan 2026: A workshop on Sarus Crane conservation in Cambodia and Vietnam, July 2016, Phnom Penh, Cambodia.

- **Pruvot, M.**, Chea, S., LACANET progress in Cambodia, 3<sup>rd</sup> LACANET annual meeting, July 2016, Bangkok, Thailand
- Khammavong, K., **Pruvot, M.**, LACANET progress in Laos, 3<sup>rd</sup> LACANET annual meeting, July 2016, Bangkok, Thailand
- **Pruvot, M.**, Carbofuran poisoning at the interface between wildlife, livestock and humans, Zoonotic Technical Working Group Meeting, June 2016, Phnom Penh, Cambodia
- **Pruvot, M.**, Khammavong, K., Chea, S., LACANET Year 1 progress in Lao PDR and Cambodia, Result Oriented Monitoring (ROM) of the European Union Commission, September 2015
- **Pruvot, M.**, Progress and plans in Cambodia, 2<sup>nd</sup> LACANET annual meeting, February 2015, Phnom Penh, Cambodia
- **Pruvot, M.** Wildlife Disease Surveillance, One Health Communication Workshop, February 2015, Vientiane, Lao PDR
- **Pruvot, M.** Wildlife Disease Surveillance, One Health Communication Workshop, February 2015, Phnom Penh, Cambodia
- Johnson, A., Krahn, J., Seateun, S., Phoumkhamouane, S., (presented by **Pruvot, M.**) *Forests and Food Linking biodiversity, ecosystem services and human nutrition in northern Laos*, Biodiversity and Health Symposium, Phnom Penh Cambodia, 2014
- **Pruvot, M.** Kutz, S., Musiani, M., and K. Orsel, What attracts elk onto beef cattle pasture: a distribution modelling approach to wildlife-livestock contact structure. SVEPM 2014, Dublin, Ireland.
- **Pruvot, M.**, Orsel, K. Disease transmission at the cattle-wildlife interface: the role of modeling. Disease Modeling Symposium and Workshop, University of Calgary. Invited presentation.
- **Pruvot, M.**, M. Lejeune, S. Kutz, M. Musiani and K. Orsel, Eco-epidemiology of *Fascioloides magna* in elk of the Canadian Rockies in a wildlife-livestock system, Accepted for oral presentation at the 61th Annual International conference of the Wildlife Disease Association 2012, Lyon, France.
- **Pruvot, M.**, M. Lejeune, S. Kutz, M. Musiani and K. Orsel, Eco-epidemiology of *Fascioloides magna* at the interface between cattle and elk, Accepted for oral presentation, 13th ISVEE, 2012, Maastricht, Netherland
- **Pruvot, M.**, K. Orsel, Eco-epidemiology of production limiting diseases at the interface between cattle and elk in Southwestern Alberta, Adras/UCVM meeting, UCVM, Calgary, AB, January 9th 2012
- **Pruvot, M.**, Do cattle and elk share more than the grass on the pasture land? Assessing the risk of disease transmission between cattle and elk, Producer meeting, Pincher Creek Alberta, January 26th, 2011
- **Pruvot M.**, K. Orsel, S. Kutz, Interactions between beef cattle and elk in Southwestern Alberta: Effect on the dynamics of production limiting diseases - example of *Fascioloides magna* -, 4th UCVM Research day, March 15th 2011.
- **Pruvot M.**, K. Orsel, S. Kutz, Interaction between beef cattle and elk in Southwestern Alberta: Assessment of the effect on the dynamics of production limiting diseases, UCVM Research in Progress Seminar, Feb 7th 2011.

- **Pruvot, M.**, K. Orsel, S. Kutz, Addressing the role of elk and cattle interaction in the epidemiology of Johne's disease, Canadian MAP Research Meeting, October 2009, Banff (Alberta), Canada
- **Pruvot, M.**, Addressing the role of cattle-elk interaction in the epidemiology of infectious diseases in Southwest Alberta , Southwest Alberta Montane Research Group, November 2009, University of Calgary, Calgary, AB, Canada

#### **Poster presentation**

- Binot, A., Horwood, P., Fine, A., Newton, P., Goutard, F., Cappelle, J., **Pruvot, M.**, Kasemsuwan, S., Sayaphet, R., Silithammavong, S., Theppangna, W., San, S., Putthana, V., Tarantola, A., ComAcross & LACANET projects Working in partnership at the Animal-Environment-Human Interface: *One Health Actions in Southeast Asia under the INNOVATE EU Program*, Biodiversity and Health Symposium, Phnom Penh, Cambodia, 2014
- **M. Pruvot**, M. Musiani, J. De Buck, H. Barkema, S. Kutz, K. Orsel, *Mycobacterium avium* subsp. *paratuberculosis* (MAP) and *Neospora caninum*: Risk of transmission between cattle and elk in Southwestern Alberta Foothills, Accepted for poster presentation at ISVEE 13, Maastricht, 2012
- **Pruvot M.**, Forde, T., Kutz S., De Buck J., Musiani M., Barkema H., and Orsel, K. *Mycobacterium avium* subsp. *paratuberculosis* at the interface between free-ranging elk and beef cattle in Southwestern Alberta, accepted for poster presentation at the Wildlife Disease Association 61th Annual International Conference 2012, Lyon, France
- **Pruvot, M.**, Kutz, S., Massolo, A., Musiani, M. and Orsel, K., The dynamics of giant liver fluke, *Fascioloides magna*, at the wildlife-livestock interface, 3rd Epidemics conference, Boston, USA, December 2011
- **Pruvot M.**, Musiani M., De Buck J., Barkema H., Kutz S., Massolo A., and Orsel K., Disease transmission at the livestock-wildlife interface: *Neospora caninum* and *Mycobacterium avium* subsp. *paratuberculosis* in beef cattle and elk., 3rd Epidemics conference, Boston, USA, December 2011
- Orsel, K., **Pruvot, M.**, Musiani, M. and Kutz, S. Epidemiological Methodology For Fecal Collections From Free-Ranging Elk In Southwestern Alberta. The Canadian Association of Veterinary Epidemiology and Preventive Medicine (CAVEPM), Event detection and surveillance. May 26-27th 2011, St Hyacinthe, Canada
- Orsel, K., **Pruvot, M.**, Musiani, M. and Kutz, S., Epidemiological Methodology For Fecal Collections From Free-Ranging Elk In Southwestern Alberta, UCVm Beef Cattle Conference 2011, Calgary, AB, Canada
- **Pruvot, M.**, Orsel, K., Lejeune, M., Kutz, S., Musiani, M., *Fascioloides magna* at the interface between cattle and elk in Alberta, UCVm Beef Cattle Conference 2011, Calgary, AB, Canada

## **Grants and awards**

### **2018:**

- INDOPACOM Wildlife Bio-Surveillance Project. Defense and Threat Reduction Agency. USD 5,000,000

### **2017:**

- Science for Nature and People Partnership (SNAPP), “A Bottom-Up Health Approach in Support of PPR Control in Mongolia- A Scalable Model for Conserving Wildlife by Addressing Disease at the Livestock/Wildlife Interface, and Safeguarding Rural Livelihoods in Central Asia's High Elevation Grassland and Mountain Landscapes” USD 150,000
- Understanding the Peste-des-Petits-Ruminants Epidemic in Wild Mongolian Ungulates & Identifying Interventions to Reduce Mortality and Disease Spread. Morris Animal Foundation’s Betty White Wildlife Rapid Response Fund, USD 50,000

### **2013:**

- Eyes High “Top flight” Travel Award (1,694 CAD)

### **2012:**

- UCVM Associate Dean’s Award for Outstanding Achievement by a UCVM Graduate Student (2,000 CAD)
- Eyes High International Doctoral Scholarship (10,000 CAD)
- Agent-based modeling as an innovative tool to simulate disease dynamics at the wildlife-livestock interface for decision-making support, Agriculture Funding Consortium project competition 2012, (145,000 CAD funded by ALMA)
- Professional Development Grant - Graduate Student Association, 2012 (500 CAD)

### **2011:**

- GSA Travel Award (500 CAD)
- Open Scholarship Competition - Doctoral competition (10,000 CAD)
- Top Platform presenter of the 4th UCVM Research Day (500 CAD)

### **2010:**

- UCVM Entrance Award (36,000CAD)
- UCVM Professional Degree Top-up Award (18,000 CAD)

### **2009:**

- "Mention Très bien" highest distinction for MSc in epidemiology and biostatistics, Université de Montpellier, Montpellier, France,
- "Mention Très honorable" highest distinction for DVM, Ecole Nationale vétérinaire de Toulouse - Université Paul Sabatier, Toulouse, France

**2008:**

- "Bourse DGER: Direction générale de l'enseignement et de la recherche", General direction of research and education (Regional branch of the research and education ministry) (670 euro)

**2007:**

- "Bourse AMOPA: Association des membres de l'Ordre des Palmes Académiques", Association of members of the Academic award board, (500 euro)
- "Bourse aux idées Royal Canin", Royal Canin, 2007 (200 euro)
- National veterinary college of Toulouse Poster competition in Bacteriology and virology, MSA: Mutuelle Santé Agricole (Agricultural health insurance Compagny award)

## **Technical skills**

### **Software**

- Statistical analysis: R, WinBUGS, Presence, Distance (other statistical software: STATA, SPSS, Minitab, EpiInfo)
- Geographic Information System and spatial analysis: ArcGIS, QGIS, GME, R
- Modeling: R, NetLogo, AnyLogic, @Risk, WinBUGS

### **Languages**

- French: native language
- English: fluent (written and spoken)
- Italian: basic

## **Other affiliations and professional activities**

- Guest Associate Editor Frontiers in Veterinary Science – Research Topic
- Member of the IUCN Wildlife Health Specialist Group
- Reviewer for EcoHealth, Transboundary and Emerging Diseases, PeerJ, Wildlife Research, Actatropica, PlosOne

## **Volunteering**

- Volunteering for the Calgary Centre for Global Community annual fundraising
- Created a peace-building workshop for undergraduate veterinary students “The role of veterinarians in conflict resolution and peace-building”
- Created “Peace Your Way”, an initiative to expand the peace-building workshop to other faculties throughout the University of Calgary
- Solutionaries – Neighbourhood Leadership Program (Calgary Centre for Global Community): full year program training to community development and skills to take action for positive changes at the community level.
- Presentation of an epidemiology seminar for Science high school teachers in collaboration with “Let’s talk science” program.
- 2012 Aggie Days: promotion of the University of Calgary Veterinary Medicine undergraduate and postgraduate education.
- “Vet U Can”, open house of the faculty of veterinary medicine and promotion of UCVM research activities in 2011.