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## Dr. Marco Musiani

Correspondence language: English

### Contact Information

The primary information is denoted by (\*)

#### Address

Primary Affiliation (\*)

Department of Biological Sciences  
Faculty of Science  
University of Calgary  
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## Dr. Marco Musiani

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### Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	No	No	Yes	No
Italian	Yes	Yes	Yes	Yes	Yes

### Degrees

- 2005/7 Post-doctorate, Animal Ecology, Universita Degli Studi di Roma 'La Sapienza'
- 2003/8 Doctorate, Applied Animal Ecology, The University of Calgary
- 1997/3 Master's Thesis, Ecology, Università degli Studi di Siena
- 1994/12 Bachelor's, Biological Sciences, Universita Degli Studi di Roma 'La Sapienza'

### Recognitions

- 2020/7 2020 Long Service Award  
The University of Calgary  
Prize / Award  
15 years of service with the University of Calgary

### User Profile

Research Specialization Keywords: Wildlife Ecology and Management, Conservation Biology, Terrestrial Ecology, Wildlife Biology, Conservation Genetics

### Employment

- 2017/1 International Faculty Member, PhD Program  
Biology, Università degli studi di Pisa  
Part-time, Professor  
Tenure Status: Non Tenure Track  
I conduct seminars and mentor students every month. European Union guidelines favour international participation, like mine.
- 2016/7 Professor  
Biological Sciences, Faculty of Science, The University of Calgary  
Full-time, Professor  
Tenure Status: Tenure

2015/7	Professor, Joint Position Faculty of Veterinary Medicine, Department of Ecosystem and Public Health, The University of Calgary Full-time, Professor Tenure Status: Tenure
2007/9	Faculty Affiliate College of Forestry and Conservation, University of Montana Part-time, Professor Tenure Status: Non Tenure Track I meet with UofM colleagues. I serve as Principal Investigator on collaborative research projects. I supervise graduate students. I also mentor other students with dedicated contact time every month.
2015/7 - 2016/6	Professor Faculty of Environmental Design, The University of Calgary Full-time, Professor Tenure Status: Tenure
2010/7 - 2015/6	Associate Professor, Joint Position Faculty of Veterinary Medicine, Department of Ecosystem and Public Health, The University of Calgary Full-time, Associate Professor Tenure Status: Tenure
2010/7 - 2015/6	Associate Professor Faculty of Environmental Design, The University of Calgary Full-time, Associate Professor Tenure Status: Tenure
2005/7 - 2010/6	Assistant Professor Faculty of Environmental Design, The University of Calgary Full-time, Assistant Professor Tenure Status: Tenure Track
2004/9 - 2006/9	Adjunct Professor, Graduate Advisor Interdisciplinary, Master Program, Prescott College Full-time, Adjunct, Assistant Professor Tenure Status: Non Tenure Track
2004/3 - 2005/6	International Scientific Consultant Food and Agriculture Organisation (FAO), United Nations (UN)
2002/11 - 2003/12	Scientific Consultant Defenders of Wildlife, Wolf Depredation Program
2002/10 - 2002/11	International Scientific Consultant University of Lisbon, Government of Portugal Portuguese Project "New Solutions to Control Predation on Livestock"

## Leaves of Absence and Impact on Research

2020/1 - 2020/3	Sabbatical, The University of Calgary No teaching and decreased service. Focused on Graduate Students' projects and International collaborations
2016/7 - 2016/12	Sabbatical, The University of Calgary No teaching or service. Focused on International collaborations

## Research Funding History

### Awarded [n=10]

2021/5 - 2026/4 Co-applicant	Conservation genomics of British Columbia caribou, Grant <b>Funding Sources:</b> Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance Grant Total Funding - 150,000 Portion of Funding Received - 75,000 Funding Competitive?: Yes Environment Canada Total Funding - 100,000 Portion of Funding Received - 50,000 Funding Competitive?: Yes British Columbia Government Total Funding - 140,000 Portion of Funding Received - 70,000 Funding Competitive?: No
2020/5 - 2025/4 Principal Investigator	Human impacts on isolation and diversity of wildlife populations, Grant <b>Funding Sources:</b> Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Total Funding - 165,000 Portion of Funding Received - 165,000 Funding Competitive?: Yes
2020/5 - 2024/5 Co-investigator	A Portable DNA Species Detection Device for Conservation, Grant <b>Funding Sources:</b> Alberta Innovates Total Funding - 180,000 Portion of Funding Received - 60,000 Funding Competitive?: Yes
2020/1 - 2023/12 Co-investigator	A Portable DNA Testing Device for Conservation, Grant <b>Funding Sources:</b> Canadian Oil Sands Innovation Alliance (COSIA) Total Funding - 180,000 Portion of Funding Received - 60,000 Funding Competitive?: Yes Natural Sciences and Engineering Research Council of Canada (NSERC) Collaborative Research and Development Grant Total Funding - 288,000 Portion of Funding Received - 95,000 Funding Competitive?: Yes
2019/1 - 2023/12 Principal Investigator	Factors influencing wolverine populations -additional funds, not under other wolverine projects, Grant <b>Funding Sources:</b> Various Donors and Univ. of Calgary Total Funding - 184,000 Portion of Funding Received - 184,000 Funding Competitive?: No

2017/9 - 2022/9 Co-investigator	<p>One-health approach to echinococcosis (<i>Echinococcus multilocularis</i>) in client owned dogs in Alberta: force of infection, risk factors, diagnostics, treatments and information, Grant</p> <p><b>Funding Sources:</b> MITACS and Bayer Total Funding - 60,000 Portion of Funding Received - 60,000 Funding Competitive?: Yes</p>
2021/2 - 2022/6 Principal Investigator	<p>Effects of human and natural habitat factors on wolverine density and connectivity, Grant</p> <p><b>Funding Sources:</b> Mathematics of Information Technology and Complex Systems (MITACS) Total Funding - 30,000 Portion of Funding Received - 30,000 Funding Competitive?: Yes</p>
2018/4 - 2021/12 Collaborator	<p>Use of genomics to manage and protect caribou populations, Grant</p> <p><b>Funding Sources:</b> Genome Quebec Genome Canada competition - Genomic Applications Partnership Program (GAPP) Total Funding - 3,000,000 Portion of Funding Received - 0 Funding Competitive?: Yes</p>
2018/3 - 2021/6 Principal Investigator	<p>Natural and human factors influencing wolverine populations, Grant</p> <p><b>Funding Sources:</b> Yellowstone to Yukon Conservation Initiative Total Funding - 142,000 Portion of Funding Received - 142,000 Funding Competitive?: No</p>
2020/1 - 2021/3 Principal Investigator	<p>Caribou Genetics Review - Jasper National Park, Grant</p> <p><b>Funding Sources:</b> Parks Canada Total Funding - 34,000 Portion of Funding Received - 34,000 Funding Competitive?: Yes</p>
<b>Completed [n=15]</b>	
2019/6 - 2020/12 Principal Investigator	<p>Genetics and gene flow among wolverine populations, Grant</p> <p><b>Funding Sources:</b> Earth Rangers Total Funding - 10,000 Portion of Funding Received - 10,000 Funding Competitive?: No</p>
2011/3 - 2020/12 Principal Investigator	<p>Scaling Up the Role of Predation in Caribou Declines, Grant</p> <p><b>Funding Sources:</b> Petroleum Technology Alliance of Canada (PTAC) Alberta Upstream Petroleum Research Fund (AUPRF) Total Funding - 360,537 Portion of Funding Received - 360,537 Funding Competitive?: Yes</p>

- 2020/4 - 2020/8  
Principal Investigator
- Habitat security mapping for improving human-wildlife coexistence in the Bow Valley, Grant
- Funding Sources:**  
Mathematics of Information Technology and Complex Systems (MITACS)  
Total Funding - 15,000  
Portion of Funding Received - 15,000  
Funding Competitive?: Yes
- 2019/9 - 2019/12  
Principal Investigator
- The spatial distribution and host partitioning of the European strain of *Echinococcus multilocularis* in Western Canada, Grant
- Funding Sources:**  
Mathematics of Information Technology and Complex Systems (MITACS)  
Total Funding - 6,000  
Portion of Funding Received - 6,000  
Funding Competitive?: Yes
- 2018/1 - 2019/6  
Principal Investigator
- Redefining Designable Units of Caribou, Grant
- Funding Sources:**  
Petroleum Technology Alliance of Canada (PTAC)  
Total Funding - 61,327  
Portion of Funding Received - 61,327  
Funding Competitive?: Yes
- 2018/5 - 2019/5  
Principal Investigator
- Conservation genetics of caribou in British Columbia, Grant
- Funding Sources:**  
Ministry of Forests - British Columbia (Victoria, BC)  
Total Funding - 25,000  
Portion of Funding Received - 25,000  
Funding Competitive?: No
- 2012/5 - 2019/4  
Collaborator
- NSERC CREATE in Host-Parasite Interactions (HPI) to model basic biological principles: From research and education to career path, Grant
- Funding Sources:**  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
CREATE  
Total Funding - 1,650,000  
Portion of Funding Received - 0  
Funding Competitive?: Yes
- 2018/4 - 2019/3  
Principal Investigator
- Effects of human disturbances on female wolverines, Grant
- Funding Sources:**  
Habitat Conservation Trust Fund  
Total Funding - 44,100  
Portion of Funding Received - 44,100  
Funding Competitive?: Yes
- 2017/2 - 2018/8  
Principal Investigator
- Influences of Industry on Woodland Caribou Decline in Northern Manitoba and West-Central Alberta, Grant
- Funding Sources:**  
Government of Manitoba  
Total Funding - 7,000  
Portion of Funding Received - 7,000  
Funding Competitive?: No

- 2017/7 - 2018/3  
Principal Investigator Directing genetics, ecology and their correlation of caribou in Yukon for management and conservation practices, Grant
- Funding Sources:**  
Yukon Territorial Government  
Total Funding - 11,350  
Portion of Funding Received - 11,350  
Funding Competitive?: Yes
- 2016/4 - 2018/3  
Co-investigator Determining genomic characteristics of caribou in Alberta for management and conservation practices, Grant
- Funding Sources:**  
Alberta Conservation Association  
Total Funding - 9,150  
Portion of Funding Received - 9,150  
Funding Competitive?: Yes
- 2013/11 - 2016/10  
Principal Investigator Grizzly Bear Trends and Populations in the North, Grant
- Funding Sources:**  
Initiative partnering academia, DeBeers and Government of the Northwest Territories  
Total Funding - 160,000  
Portion of Funding Received - 160,000  
Funding Competitive?: Yes
- 2011/5 - 2016/5  
Principal Investigator Developing multivariate approaches to analyze ecological and genetic variation in caribou and other highly-vagile Mammals (Discovery), Grant
- Funding Sources:**  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
Total Funding - 140,000  
Portion of Funding Received - 140,000  
Funding Competitive?: Yes
- 2014/4 - 2015/12  
Principal Investigator Human vs natural influences and mitigation measures on the Central Mountain caribou of Alberta, Grant
- Funding Sources:**  
Shell Canada Ltd  
Total Funding - 41,025  
Portion of Funding Received - 41,025  
Funding Competitive?: Yes
- 2013/9 - 2015/9  
Collaborator Agent-based modeling as an innovative tool to simulate disease dynamics at the wildlife livestock interface for decision-making, Grant
- Funding Sources:**  
Alberta Livestock and Meat Agency Ltd. (ALMA)  
Total Funding - 145,600  
Portion of Funding Received - 50,000  
Funding Competitive?: Yes

## Student/Postdoctoral Supervision

### Bachelor's [n=7]

2020/1 - 2021/4 Principal Supervisor	Trevor Thompson (In Progress) , University of Calgary Thesis/Project Title: Sex differences in detection of terrestrial large mammals (obtained PURE Award) Present Position: BSc student
2019/5 - 2019/8 Principal Supervisor	Sarah Bomhof (Completed) , University of Calgary Thesis/Project Title: Echinococcus and canid hosts Present Position: Undergrad, King's University
2019/5 - 2019/8 Principal Supervisor	Kelsey Nishimura (Completed) , University of Calgary Thesis/Project Title: Echinococcus cycle in urban areas (obtained PURE Award) Present Position: Undergrad, University of Calgary
2019/1 - 2019/5 Principal Supervisor	Nora Nachareun (Completed) , University of Calgary Thesis/Project Title: Echinococcus in Calgary Present Position: BSc Student
2019/1 - 2019/5 Principal Supervisor	Mariana Quintero (Completed) , University of Calgary Thesis/Project Title: Echinococcus in dogs Present Position: BSc Student
2018/6 - 2018/7 Principal Supervisor	Paul Lamont (Completed) , Ecole Nationale Veterinaire de Toulouse Thesis/Project Title: Comparative analysis of Echinococcus infections (obtained Study Abroad Scholarship, France) Present Position: BSc Student, Ecole Nationale Veterinaire de Toulouse
2017/5 - 2017/12 Principal Supervisor	Meghan Rychyk (Completed) , University of Calgary Thesis/Project Title: Canis latrans in Calgary (employment, tuition support as University employee) Present Position: Research Programs Coordinator, University of Calgary

### Bachelor's Honours [n=1]

2017/9 - 2018/4 Principal Supervisor	Liam Horne (Completed) , University of Calgary Thesis/Project Title: Caribou migration and reproductive isolation (obtained University of Calgary Undergraduate Merit Award) Present Position: Ecological Research Technician, University of Calgary
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### Master's Thesis [n=9]

2021/1 - 2023/12 Co-Supervisor	Anita Michalak (In Progress) , University of Calgary Thesis/Project Title: Landscape genomics of British Columbia caribou Present Position: Master's Student
2021/1 - 2023/1 Principal Supervisor	Tatiana Barcenas (In Progress) , University of Calgary Thesis/Project Title: Echinococcus in urban dogs and risk to owners Present Position: Master's Student
2019/1 - 2019/7 Co-Supervisor	Samridhi Rijal (Completed) , University of Calgary Thesis/Project Title: Parasitic dynamics in Bighorn Sheep. Note: I supervised for 6 months while a colleague was on sabbatical. Present Position: Scientific Writing Tutor, Univ. of Calgary



- 2017/9 - 2021/3  
Principal Supervisor Emilie Toews (In Progress) , University of Calgary  
Thesis/Project Title: Ecology of Echinococcus species in dogs (obtained Canadian Collegiate Athletic Association CCAA Academic All-Canadian Award)  
Present Position: Master's student, University of Calgary
- 2016/9 - 2020/9  
Principal Supervisor Jessica Theoret (Completed) , University of Calgary  
Thesis/Project Title: Morphological and behavioral traits and genetic determination in large mammals (obtained Queen Elizabeth II Scholarship and MITACS)  
Present Position: Parks Canada ecologist
- 2014/9 - 2017/5  
Principal Supervisor Rianne Diepstraten (Completed) , The University of Calgary  
Thesis/Project Title: Phenology of Northern plants and bear trends. (Governor General's Gold Medal Nomination) (obtained NSERC CGS M Scholarship)  
Present Position: Biologist, BC Government
- 2014/9 - 2017/8  
Principal Supervisor Tyler Jessen (Completed) , The University of Calgary  
Thesis/Project Title: Grizzly bears, mining and climate in the North.  
Present Position: PhD student (nominated for Vanier scholarship), Univ. of Victoria
- 2012/9 - 2017/5  
Principal Supervisor Joseph Kermish-Wells (Completed) , The University of Calgary  
Thesis/Project Title: Grizzly bear predation, human impacts and ungulate dynamics. (obtained Charles E & Walton Kendrew Scholarship, Margaret (Peg) Brown Award In Ecological Design, Allan H Bill Memorial Scholarship, and Robert G Kellaway, Mervyn G Graves, C Sheldon Buckles, Gordon J Cummings Scholarship)  
Present Position: Biologist, California State, U.S.
- 2010/9 - 2014/8  
Principal Supervisor Colleen Arnison (Completed) , The University of Calgary  
Thesis/Project Title: Elk decline and anthropogenic changes. (obtained Charles E & Walton Kendrew Scholarship, Margaret (Peg) Brown Award In Ecological Design, Allan H Bill Memorial Scholarship, and Robert G Kellaway, Mervyn G Graves, C Sheldon Buckles, Gordon J Cummings Scholarship)  
Present Position: Biologist, Parks Canada

**Doctorate [n=5]**

- 2021/1 - 2024/1  
Principal Supervisor Margaret Hughes (In Progress) , University of Calgary  
Thesis/Project Title: Drivers of isolation of wildlife populations  
Present Position: PhD Student
- 2017/9 - 2021/12  
Principal Supervisor Mirjam Barrueto (In Progress) , University of Calgary  
Thesis/Project Title: Natural and human factors affecting wolverines. (obtained NSERC CGS D Scholarship)  
Present Position: PhD student, University of Calgary
- 2017/1 - 2021/12  
Principal Supervisor Maria Alejandra Santa (In Progress) , University of Calgary  
Thesis/Project Title: Parasitic co-infections: echinococcus and canids (obtained COLFUTURO / Fundación para el futuro de Colombia Carrera Scholarship, Alberta Innovates and MITACS)  
Present Position: PhD Candidate, University of Calgary
- 2014/9 - 2020/8  
Principal Supervisor Maria Cavedon (Completed) , The University of Calgary  
Thesis/Project Title: Competing mechanisms of species decline. (obtained Eyes High Doctoral Scholarship -the largest at UofC)  
Present Position: Postdoctoral Fellow, University of Calgary
- 2012/9 - 2018/12  
Principal Supervisor Christa Dubesky (Withdrawn) , The University of Calgary  
Thesis/Project Title: Trophic relationships and caribou declines. (Withdrawn AFTER obtained Faculty position, University College of the North, MB)  
Present Position: Faculty, University College of the North

**Post-doctorate [n=2]**

- 2020/10 - 2021/10     Maria Cavedon (In Progress) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Real-time DNA detection of large mammals in the field  
Present Position: Postdoctoral Fellow
- 2014/9 - 2015/9     Chrysoula Gkoumpili (Completed) , University of Salford  
Co-Supervisor     Thesis/Project Title: Ecological genomics of the North American caribou.  
Present Position: Biologist, Ministry of the Environment, Greece

**Technician [n=7]**

- 2019/1 - 2019/5     Heather Slivinski (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Wolverine ecology in the Rockies  
Present Position: Technician, Parks Canada
- 2019/1 - 2019/5     Steve Bertollo (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Wolverine ecology in the Rockies  
Present Position: Technician, Parks Canada
- 2019/1 - 2019/5     Leo Levesque (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Wolverine ecology in the Rockies  
Present Position: Technician, Parks Canada
- 2018/1 - 2018/5     Tracy Woitenko (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Wolverine Ecology in the Rockies  
Present Position: Development Planner, Town of Canmore
- 2017/11 - 2018/7     Michele Hueber (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Wolverine population estimates in southern Alberta and BC  
Present Position: Parks Canada Technician
- 2014/5 - 2014/10     Brady McLeod (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Grizzly Bear Ecology in West-Central Alberta  
Present Position: Undergraduate Student, Univ. College North
- 2013/6 - 2014/9     Joseph Catholic (Completed) , University of Calgary  
Principal Supervisor     Thesis/Project Title: Grizzly bear ecology in the tundra of the Northwest Territories  
(obtained Lutsel K'e Dene First Nation Grant)  
Present Position: Wildlife Officer, Lutsel K'e Dene First Nation

**Editorial Activities**

- 2017/7 - 2022/7     Associate Editor, Hystrix - the Italian Journal of Mammalogy, Journal

**Knowledge and Technology Translation**

- 2021/1 - 2021/1     Observer, Technology, Product, Process, Service Improvement/Development  
Group/Organization/Business Serviced: Parks Canada  
Target Stakeholder: Government Personnel  
Outcome / Deliverable: Scientific Review of Parks Canada's Jasper Caribou Conservation  
Breeding Program Workshop  
Activity Description: 5 x 2 hours sessions

## International Collaboration Activities

2020/3 - 2020/3 Visiting Scholar, Italy  
European Union Erasmus+ Mobility Program, University of Pisa, Italy

## Committee Memberships

2018/9 - 2021/12 Committee Member, The Faculty Association of the University of Calgary, The University of Calgary

2011/7 - 2021/12 Committee Member, MGEAR: Margaret Gunn Endowment for Animal Research, The University of Calgary

2018/9 - 2019/12 Committee Member, NSERC Vanier Committee (2 consecutive years), The University of Calgary

2017/11 - 2019/3 Committee Member, NSERC Doctoral competition (2 consecutive years), The University of Calgary

2018/1 - 2018/3 Committee Member, Graduate Award Competition, The University of Calgary

2017/6 - 2017/12 Committee Member, Search and Selection Committee, Conservation Medicine Position, Vet Med Faculty, The University of Calgary

2017/3 - 2017/8 Committee Member, Search and Selection Committee, Wildlife Health Ecology Position, Vet Med Faculty, The University of Calgary

2014/9 - 2017/8 Committee Member, Caribou Captive Breeding and Augmentation/Reintroduction Group. Conservation Breeding Specialist Group (CBSG) of the International Union for the Conservation of Nature (IUCN), Parks Canada, and the Foothills Research Institute, Parks Canada

2015/6 - 2017/7 Committee Member, General Faculty Council (GFC), Standing Committee for Research and Scholarship, The University of Calgary

2017/1 - 2017/5 Committee Member, Search and Selection Committee, Italian Instructor Position, Faculty of Arts, The University of Calgary

2015/9 - 2016/8 Committee Member, Awards Committee, Faculty of Environmental Design, The University of Calgary

2015/10 - 2016/2 Committee Member, Provost's Appointee Faculty of Arts Faculty Tenure and Promotion Committee (FTPC), The University of Calgary

2007/9 - 2015/6 Committee Member, Faculty of Environmental Design Representative on Veterinary Medicine Faculty Council, The University of Calgary

2007/9 - 2015/6 Committee Member, Faculty of Environmental Design's Faculty Promotions Committee, The University of Calgary

2005/9 - 2014/6 Committee Member, Representative to Science Faculty Council, Faculty of Environmental Design, The University of Calgary

2013/9 - 2014/5 Committee Member, University Research Grants Committee (URGC), The University of Calgary

## Other Memberships

2009/1 Patron, UK Wolf Conservation Trust  
The Trust supports education, conservation and research. I provide scientific inputs on international research activities.

2017/1 - 2021/12	Member, Canadian Society for Ecology and Evolution (CSEE)
2013/3 - 2016/12	Member, The Society of Conservation Biology
2011/5 - 2016/12	Member, The Wildlife Society

## Presentations

1. Musiani. (2021). Wolves, Livestock, and the Physical and Social Environments. Consulate General of Italy in Vancouver, Society of Italian Researchers & Professionals in Western Canada (ARPICO), Keynote talk in celebration of Italian Research in the World Day., Vancouver, Canada  
Main Audience: General Public  
Invited?: Yes, Keynote?: Yes
2. Musiani. (2018). Grizzly bear foraging ecology and predation. Calgary Field Naturalists, Kananaskis, Canada  
Main Audience: General Public  
Invited?: Yes, Keynote?: No
3. Musiani. (2018). Ecology, genetics and conservation units despite gene flow in highly-vagile terrestrial Mammals (caribou and wolves). Dialoghi sul comportamento animale. PhD Program Seminar Series, Pisa, Italy  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No
4. Musiani M. (2017). Grizzly bears and railways: maladaptation. Final Forum of the Grizzly Bear Conservation Initiative, Banff, Canada  
Main Audience: Decision Maker  
Invited?: Yes, Keynote?: No
5. Musiani M. (2016). A Framework for Mitigating Wolf-Human Conflict over Livestock Predation in Canada. Alberta Beef Producers, Wildlife Committee Meeting, Calgary, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No
6. Musiani M. (2015). Variation of Endangered Caribou and Reindeer: Reconciling Conservation & Evolutionary Unites. University of Princeton/Special Seminars, New Jersey, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No

## Broadcast Interviews

2021/03/11 - 2021/03/11	Bow Valley-area wolf dies in Montana on trek to find new territory and mate. (interview), CBC News, Canadian Broadcasting Corporation
2019/01/02 - 2020/07/01	Chasing a Trace. Wolverine Research in the High Alpine of Western Canada., Documentary by award winning filmmaker Leanne Allison. Featuring PhD student Mirjam Barrueto and Interview to Musiani., Target Audience: All Audiences Target Length: 18 minutes Budget: \$50,000 (selected by Banff Mountain Film Festival and running for additional festivals)
2020/04/26 - 2020/04/26	Le confinement, une occasion de repenser notre influence sur la nature, Radio-Canada, National, Canadian Broadcasting Corporation, CBC
2020/04/10 - 2020/04/10	Urban wildlife during the COVID restriction period, Calgary: Eyeopener, Canadian Broadcasting Corporation, CBC/Radio-Canada

- 2020/02/14 - La transmission de maladies entre wapitis et bétail comporte un risque pour les humains,  
2020/02/14 ICI Alberta, Radio-Canada (CBC)
- 2020/02/14 - Elk interactions with livestock and potential for disease transmission in Alberta. (interview),  
2020/02/14 CityNews, Citytv is a part of Rogers Media Inc.
- 2020/02/13 - Study examines disease transmission risk between livestock and wildlife in Alberta.  
2020/02/13 (interview), CBC News, Canadian Broadcasting Corporation
- 2018/05/01 - Wolf behaviour and interactions with people globally (interview), Spanish TV, Manuel  
2018/05/01 Antonio Gonzalez Productions
- 2013/12/14 - Interview following a paper published under the title "Genetic diversity in caribou linked to  
2013/12/14 past and future climate change." in Nature Climate Change, Radio Canada International,  
CBC
- 2013/12/13 - Interview following a paper published under the title "Genetic diversity in caribou linked to  
2013/12/13 past and future climate change." in Nature Climate Change, Mix 1037 Fm News, Canada
- 2013/12/13 - "U of C professor cracks the Caribou vs. Reindeer debate." (interview), 660 News, Canada  
2013/12/13
- 2013/07/13 - Dispelling the Myth of the Wolf - An Interview with Dr. Marco Musiani, NUTV Full Frontal  
2013/07/13 LIVE!, NUTV, University of Calgary
- 2013/05/15 - "Do humans shape ecosystems?" Interview conducted following publication of a paper  
2013/05/15 with a breakthrough methodological achievement of our lab, Science World, Voice of  
America, radio with an audience of 130 million people
- 2013/01/23 - Interview and debate on scientific methods of wolf predation management, CTV News,  
2013/01/23 Canada
- 2012/09/06 - Human selection of elk behavioural traits in a landscape of fear (interview), Italian National  
2012/09/06 News RAI (TV), Italy

## Text Interviews

- 2021/05/06 Fatal bear attack prompts reminders of wildlife safety, gives insight into bear behaviour  
(interview), Calgary Herald
- 2019/12/12 Wildlife Conservation Showcase: Musiani Lab (interview with Graduate Students and  
Musiani), The Gauntlet
- 2019/10/24 PhD student's wolverine research subject of documentary at Banff Film Festival (interview  
with Barrueto and Musiani), UCalgary News
- 2019/06/11 University of Calgary-led study finds natural mechanism that ensures long-term biological  
diversity in caribou (interview), UCalgary News
- 2019/06/10 UCalgary-led study observes long-term biological diversity in caribou (interview), The Crag  
and Canyon AND Regina Leader-Post
- 2018/04/09 Giant pandas make new home at Calgary Zoo (interview), Emery Weal, Canada
- 2014/11/13 Heavy hunting is stressing out Northern wolves (interview), UToday, University of Calgary
- 2014/11/12 Stress affects wolves in hunting grounds, and it may alter their evolution: study (interview),  
The Globe and Mail, Canada
- 2014/11/12 Hunted wolves exhibit higher stress levels and social disruption, study says (interview),  
The Province, Canada
- 2014/11/12 Les loups vivant dans des régions ouvertes à la chasse sont plus stressés (interview),  
Radio Canada, CBC

- 2014/11/12 Wolves facing hunting threat get stressed out, face social disturbance: study (interview), CTV News, Canada
- 2014/11/12 Wolves with high hunting threat get stressed out: study (interview), CBC, The Canadian Press

## Publications

### Journal Articles

1. Santa\*, Rezansoff, Chen, Gilleard, Musiani, Ruckstuhl, Massolo. (2021). Deep amplicon sequencing highlights low intra-host genetic variability of *Echinococcus multilocularis* and high prevalence of the European-type haplotypes in coyotes and red foxes in Alberta, Canada. *PLOS Neglected Tropical Diseases*.  
Accepted  
Refereed?: Yes
2. Toews\*, Musiani, Checkley, Visscher, Massolo. (2021). A global assessment of *Echinococcus multilocularis* infections in domestic dogs: proposing a framework to overcome past methodological heterogeneity. *International Journal for Parasitology*. Jan 19  
Published  
Refereed?: Yes
3. Verocai , Hoberg , Simard , Beckmen , Musiani , Wasser , Cuyler , Manseau , Chaudhry , Kashivakura , Gilleard. (2020). The biogeography of the caribou lungworm, *Varestrongylus eleguneniensis* (Nematoda: Protostrongylidae) across northern North America. *International Journal for Parasitology: Parasites and Wildlife*. (11): 93-102.  
Published  
Refereed?: Yes
4. Pruvot, Musiani, Boyce, Kutz, Orsel. (2020). Integrating Livestock Management and Telemetry Data to Quantify Interactions between Wildlife and Livestock. *Preventive Veterinary Medicine*. 174(104846)  
Published  
Refereed?: Yes
5. Pigeon, MacNearney, Hebblewhite, Musiani, Neufeld, Cranston, Stenhouse, Schmiegelow, Finnegan. (2020). The density of anthropogenic features explains seasonal and behaviour-based functional responses in selection of linear features by a social predator. *Scientific Reports*. (10): 1-13.  
Published  
Refereed?: Yes
6. Cavedon\*, Goubili\*, Heppenheimer, vonHoldt, Mariani, Hebblewhite, Hegel, Hervieux, Serrouya, Steenweg, Weckworth\*, Musiani. (2019). Genomics, environment and balancing selection in behaviorally bimodal populations: the caribou case. *Molecular Ecology*. 28: 1946-1963.  
Published  
Refereed?: Yes
7. Muhly\*, Johnson, Hebblewhite, Neilson, Fortin, Fryxell, Latham, Arienti, McLoughlin , Merrill , Paquet, Patterson, Schmiegelow , Scurrah, Musiani. (2019). Functional Response of Wolves to Human Development across Boreal Ecosystems. *Ecology and Evolution*. 9(18): 1–15.  
Published  
Refereed?: Yes
8. Finnegan, Pigeon, Cranston, Hebblewhite, Musiani, Neufeld, Schmiegelow, Duval, Stenhouse. (2018). Natural regeneration on seismic lines influences movement behaviour of wolves and grizzly bears. *PLoS one*. 13: e0195480.  
Published  
Refereed?: Yes

9. Diepstraten\*, Jessen\*, Fauvelle, Musiani. (2018). Does climate change and plant phenology research neglect the arctic tundra?. *Ecosphere*. 9(9)(e02362)  
Published  
Refereed?: Yes
10. Kermish-Wells\*, Massolo, Stenhouse, Larsen, Musiani. (2018). Space–time clusters for early detection of grizzly bear predation. *Ecology and evolution*. 8: 382-395.  
Published  
Refereed?: Yes
11. Weckworth\*, Hebblewhite, Mariani, Musiani. (2018). Lines on a map: conservation units, meta-population dynamics and recovery of woodland caribou in Canada. *Ecosphere*. 9(7)(e02323)  
Published  
Refereed?: Yes
12. Cheng, Musiani, Cavedon\*, Gilch. (2017). High prevalence of prion protein genotype associated with resistance to chronic wasting disease in one Alberta woodland caribou population. *Prion*. 11: 136-142.  
Published  
Refereed?: Yes
13. Gubili\*; Mariani; Weckworth\*; Galpern; McDevitt\*; Hebblewhite; Nickel; Musiani. (2017). Environmental and anthropogenic drivers of connectivity patterns: a basis for prioritizing conservation efforts for threatened populations. *Evolutionary Applications*. 10: 199-211.  
Published  
Refereed?: Yes
14. Schweizer, Robinson, Harrigan, Silva, Galverni, Musiani, Green, Novembre, Wayne. (2016). Targeted capture and resequencing of 1040 genes reveal environmentally driven functional variation in gray wolves. *Molecular Ecology*. 25: 357–379.  
Published  
Refereed?: Yes
15. Musiani. (2016). Wolf hunting and prey behaviors in the real world (book review). *Ecology*. 97: 1368-1369.  
Published  
Refereed?: Yes
16. Benz, Boyce, Thurfjell, Paton, Musiani, Dormann, Ciuti\*. (2016). Dispersal ecology informs design of large-scale wildlife corridors. *PLoS ONE*. 11: e0162989.  
Published  
Refereed?: Yes
17. Schweizer, vonHoldt, Harrigan, Knowles, Musiani, Coltman, Novembre, Wayne. (2016). Genetic subdivision and candidate genes under selection in North American gray wolves. *Molecular Ecology*. 25: 380-402.  
Published  
Refereed?: Yes
18. Pruvot, Lejeune, Kutz, Hutchins, Musiani, Massolo, Orsel. (2016). Better Alone or in Ill Company? The Effect of Migration and Inter-Species Comingling on *Fascioloides magna* Infection in Elk. *PloS one*. 11: e0159319.  
Published  
Refereed?: Yes
19. Bryan\*, Smits, Koren, Paquet, Wynne-Edwards, Musiani. (2015). Heavily hunted wolves have higher stress and reproductive steroids than wolves with lower hunting pressure. *Functional Ecology*. 29(3): 347-356.  
Published  
Refereed?: Yes

## Reports

1. Cavedon\*, Musiani. (2020). Assessing genetics among caribou in the Jasper region to inform source founders for captive breeding. 52. Parks Canada.
2. Musiani, Barrueto\*. (2019). Effects of human disturbances on female wolverines. 19. Habitat Conservation Trust Foundation.
3. Musiani, Barrueto\*. (2019). Natural and human factors influencing wolverines. 16. Yellowstone to Yukon Conserv. Initiative (Y2Y).
4. Cavedon\*, Musiani. (2017). Evaluating Genomic Diversity for Caribou in Alberta to Allow for Effective Biodiversity Monitoring, Augmentation and Conservation. 28. Petroleum Technology Alliance of Canada, Canadian Association of Petroleum Producers.
5. Cavedon\*, Musiani. (2017). Detecting genetics, ecology and their correlation of caribou in Yukon for management and conservation practices: final report. 5. Yukon Fish and Wildlife Enhancement Trust.
6. Jessen\*, Diepstraten\*, Bath, Musiani. (2016). Grizzly Bear Traditional Ecological Knowledge of the Lutsel K'e Dene First Nation. 17. Government of Northwest Territories

## Conference Publications

1. Carrier, Prunier, Poisson, Auger, Harton, Gilbert, Kantanen, Musiani, Côté, Taillon, Albert, Bourret, Droit, Robert. (2021). Development of a SNP Chip for caribou/reindeer (*Rangifer tarandus*): Illumina BeadChip RangiferSNP63k\_v2. 18th North American Caribou Workshop, Quebec, Canada  
Conference Date: 2021/5  
Abstract  
Published  
Refereed?: Yes, Invited?: No
2. Cavedon\*, vonHoldt, Hebblewhite, Hegel, Heppenheimer, Hervieux, Mariani, Schwantje, Steenweg, Watters, Musiani. (2021). Selection of both habitat and genes in specialized and endangered caribou. 18th North American Caribou Workshop, Quebec, Canada  
Conference Date: 2021/5  
Abstract  
Published  
Refereed?: Yes, Invited?: No
3. Robert, Carrier, Trottier-Lavoie, Poisson, Dedato, Prunier, Gilbert, Bastien, Albert, Bourret, Taillon, Matromonaco, Musiani, Pokharel, Kantanen, Shafer, Droit, Côté. (2021). The new pangenomic SNP chip for *Rangifer tarandus*: design and validation. 18th North American Caribou Workshop, Quebec, Canada  
Conference Date: 2021/5  
Abstract  
Published  
Refereed?: Yes, Invited?: No
4. Toews\*, Musiani, Visscher, Checkley, Smith\*, Massolo. (2020). Wildlife and domestic animal overlap and parasitic infections: the *Echinococcus multilocularis* case. ACTWS 2020 – Alberta Chapter of the Wildlife Society Annual Meeting, Webinar series, Camrose, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No



5. Cavedon\*, vonHoldt, Heppenheimer, Adamczewski, Hebblewhite, Hegel, MacBeth, Mariani, Neufeld, Schwantje, Steenweg, Theoret\*, Musiani. (2020). Moving genes around: consequences for caribou conservation breeding program in Jasper area. Alberta Chapter of Wildlife Society (ACTWS) Conference 2020, Webinar series,  
Conference Date: 2020/11  
Abstract  
Published  
Refereed?: Yes, Invited?: No
6. Theoret\*, Cavedon\*, Horne\*, vonHoldt, Hegel, Steenweg, Schwantje, Adamczewski, Musiani. (2020). Caribou on the Move: Identifying migratory behaviours to preserve intraspecies diversity. Alberta Chapter of Wildlife Society (ACTWS) Conference 2020. Webinar series,  
Conference Date: 2020/11  
Abstract  
Published  
Refereed?: Yes, Invited?: No
7. Schmitt\*, Li, Musiani, Filipe. (2020). A innovative paper-based technology for species detection. North American Congress for Conservation Biology, Denver, United States  
Conference Date: 2020/7  
Abstract  
Published  
Refereed?: Yes, Invited?: No
8. Theoret\*, Cavedon\*, Horne\*, vonHoldt, Hegel, Steenweg, Schwantje, Adamczewski, Musiani. (2020). Caribou on the move: specifying caribou migratory behaviours to identify and preserve intraspecies diversity. North American Congress for Conservation Biology (NACCB) 2020, Denver, United States  
Conference Date: 2020/7  
Abstract  
Published  
Refereed?: Yes, Invited?: No
9. Toews\*, Musiani, Checkley, Visscher, Smith\*, Massolo. (2020). *Echinococcus multilocularis*: Infections in domestic dogs and implications for public health. AAVP 2020 – American Association of Veterinary Parasitologists Annual Meeting, Snowbird, United States  
Conference Date: 2020/6  
Abstract  
Published  
Refereed?: Yes, Invited?: No
10. Santa\*, Rezansoff, Chen, Gilleard, Musiani, Ruckstuhl, Massolo. (2020). Deep amplicon sequencing as a new tool to investigate the intraspecific diversity and the distribution of *Echinococcus multilocularis* in foxes and coyotes in western Canada. AAVP 2020 – American Association of Veterinary Parasitologists Annual Meeting, Snowbird, United States  
Conference Date: 2020/6  
Abstract  
Published  
Refereed?: Yes, Invited?: No
11. Toews\*, Musiani, Visscher, Checkley, Smith\*, Massolo. (2020). Parasitic infections in domestic dogs: *Echinococcus multilocularis*. BGSA 2020 – Biology Graduate Student Association Biological Sciences Annual Symposium, Calgary, Canada  
Conference Date: 2020/3  
Abstract  
Published  
Refereed?: Yes, Invited?: No

12. Schmitt\*, Li, Carlos, Musiani. (2019). A portable DNA Testing Device for the real-time detection of wildlife for non-experts. International Congress for Conservation Biology, Malaysia  
Abstract  
Published  
Refereed?: Yes, Invited?: No
13. Musiani. (2019). Redefining Designable Units (DUs): Phase 2, Mountain and Boreal Caribou in Alberta and BC. 2019 Ecological Forum. Petroleum Technology Alliance Canada, Calgary, Canada  
Conference Date: 2019/12  
Abstract  
Published  
Refereed?: No, Invited?: Yes
14. Theoret\*, Cavedon\*, Musiani. (2019). Classifying caribou migratory behaviour to identify and preserve intraspecies biodiversity. ACTWS · CSTWS 2019 CONFERENCE, Canmore, Canada  
Conference Date: 2019/3  
Abstract  
Published  
Refereed?: Yes, Invited?: No
15. Cavedon\*, vonHoldt, Mariani, Hebblewhite, Schwantje, Musiani. (2019). Ecological genomics and conservation of caribou in Alberta and western North America. Alberta Chapter of the Wildlife Society ACTWS · CSTWS 2019 CONFERENCE, Canmore, Canada  
Conference Date: 2019/3  
Abstract  
Published  
Refereed?: Yes, Invited?: No
16. Horne\*, Musiani, Cavedon\*, Theoret\*. (2019). Spatial separation during the caribou rut as a mechanism of reproductive isolation. ACTWS · CSTWS 2019 CONFERENCE, Canmore, Canada  
Conference Date: 2019/3  
Abstract  
Published  
Refereed?: Yes, Invited?: No
17. Massolo, Towes\*, Smith\*, Lamont\*, Rock, Visscher, Musiani, Santa\*, Klein, Checkley. (2018). The breed effect on *E multilocularis* and *E canadensis* infections in urban dogs: the pooled prevalence may be misleading?. ICOPA 14th International congress of parasitology, Exco, Korea, Republic of  
Abstract  
Published  
Refereed?: Yes, Invited?: Yes
18. Theoret\*, Cavedon\*, vonHoldt, Hegel, Steenweg, Schwantje, Adamczewski, Musiani. (2018). Behavioural And Genomic Variation Within And Between Caribou Populations. North American Congress for Conservation Biology, Toronto, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
19. Theoret\*, Cavedon\*, vonHoldt, Hegel, Steenweg, Schwantje, Adamczewski, Musiani. (2018). Classifying caribou migratory behaviour as part of an interdisciplinary approach to identify and preserve intraspecies biodiversity. 17th North American Caribou Workshop (NACW), Ottawa, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No

20. Theoret\*; Cavedon\*; vonHoldt; Hegel; Steenweg; Schwantje; Adamczewski, Musiani. (2018). The impacts of human footprint on caribou populations may depend on migratory behaviour. Interdisciplinary Approaches to Managing Health of Fish and Wildlife Conference, Kimberley, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
21. Cavedon\*, vonHoldt, Mariani, Hegel, Hervieux, Musiani. (2018). Ecological genomics: a new interdisciplinary tool for the management and conservation of caribou in western North America. 17th North American Caribou Workshop (NACW), Ottawa, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
22. Barrueto\*, Musiani, Clevenger. (2018). Cameras, DNA And Collaboration: Tools To Understand Wolverine Population Persistence In Large Multi-use Landscapes. North American Congress for Conservation Biology, Toronto, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: Yes
23. Cavedon\*, vonHoldt, Mariani, Hegel, Hervieux, Musiani. (2018). Ecological Genomics And Conservation Of Caribou In Western North America. North American Congress for Conservation Biology, Toronto, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
24. Pigeon, MacNearney, Hebblewhite, Musiani, Neufeld, Cranston, Stenhouse, Schmiegelow, Finnegan. (2018). The density of anthropogenic features explains seasonal and behaviour-based functional responses in selection of linear features by a social predator. 17th North American Caribou Workshop (NACW), Ottawa, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
25. Barrueto\*, Musiani, Sawaya, Jacob, Clevenger. (2018). Cameras, DNA and collaboration: tools to understand wolverine population persistence in large multi-use landscapes. BC Protected Area Research Forum, Prince Albert, Canada  
Conference Date: 2018/12  
Abstract  
Published  
Refereed?: Yes, Invited?: No
26. Musiani. (2018). Ecological and genomic variation of caribou in West-Central Alberta and BC. 2018 Ecological Issues Forum, Calgary, Canada  
Conference Date: 2018/11  
Abstract  
Published  
Refereed?: No, Invited?: Yes
27. Muhly\*, Johnson, Neilson, Hebblewhite, Merrill, Fortin, Latham, Latham, Fryxell, McLoughlin, Paquet, Patterson, Schmiegelow, Scurrah, Musiani. (2018). Functional Response of Wolves to Human Development across Boreal Canada. International Wolf Symposium 2018, Minneapolis, United States  
Conference Date: 2018/10  
Abstract  
Published  
Refereed?: Yes, Invited?: No

28. Musiani. (2018). Factors Influencing the Distribution and Abundance of Grizzly Bears Inhabiting the Barrenlands; Distribution and Phenology in Sub-Arctic Vegetation. Slave Geological Province Wildlife Monitoring Workshop, Yellowknife, Canada  
Conference Date: 2018/4  
Abstract  
Published  
Refereed?: Yes, Invited?: Yes
29. Musiani. (2017). Ecology, genetics and conservation units despite gene flow in highly-vagile terrestrial mammals (caribou and wolves). Canadian Society for Ecology and Evolution Meeting with the Canadian Section, The Wildlife Society, Victoria, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
30. Steenweg, Hebblewhite, Whittington, Musiani, Burton, Fisher, Ladle, Paczkowski. (2017). Testing and expanding umbrella species — how large carnivore occupancy correlates with species diversity and food-web structure. Alberta Chapter of The Wildlife Society Annual Conference, Lac La Biche,  
Abstract  
Published  
Refereed?: Yes, Invited?: No
31. Pigeon , MacNearney , Stenhouse , Cranston , Hebblewhite , Musiani, Neufeld. (2017). Habitat heterogeneity and functional responses explain seasonal and behaviour based selection of regenerating seismic lines for a social predator. Canadian Society for Ecology and Evolution Meeting with the Canadian Section, The Wildlife Society, Victoria, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
32. Musiani. (2017). Evaluating Genomic Diversity for Caribou in Alberta to Allow for Effective Biodiversity Monitoring, Augmentation and Conservation (phase 2). Ecological Issues Forum -PTAC, Calgary, Canada  
Abstract  
Published  
Refereed?: No, Invited?: Yes
33. Finnegan, Pigeon, MacNearney, Cranston, Hervieux, Hebblewhite, Musiani, Neufeld, Schmiegelow, Stenhouse. (2017). Natural regeneration on seismic lines influences movement behaviour of wolves and grizzly bears. Canadian Society for Ecology and Evolution Meeting with the Canadian Section, The Wildlife Society, Victoria, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
34. Theoret\*, Hegel, Hervieux, Cavedon\* and Musiani. (2017). Integrating behavioural, morphological and genomic traits for caribou conservation. Faculty of Environmental Design Research Conference, Calgary, Canada  
Poster  
Published  
Refereed?: Yes, Invited?: No
35. Musiani. (2016). Evaluating Genomic Diversity for Caribou in Alberta to Allow for Effective Biodiversity Monitoring, Augmentation and Conservation (phase 1). ECOLOGICAL ISSUES FORUM, Calgary, Canada  
Abstract  
Published  
Refereed?: No, Invited?: Yes

36. Avgar, Prokopenko, Ciuti, Musiani, Boyce. (2016). From individual observations to population inference: decomposing and explaining variability in elk spatial behavior. 11th CSEE Annual Meeting, St John's, Canada  
Abstract  
Published  
Refereed?: Yes, Invited?: No
37. Musiani. (2016). Ecology, genetics, and conservation units despite gene flow in highly-vagile terrestrial mammals (caribou and wolves). 96TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF MAMMALOGISTS, Minneapolis, United States  
Abstract  
Published  
Refereed?: Yes, Invited?: No
38. Schweizer, Robinson, Harrigan, Silva, Galaverni, Musiani, Green, Novembre, Wayne. (2016). Evidence for environmentally driven functional variation in gray wolves. American Genetics Association President's Symposium on Local Adaptation, Asilomar, United States  
Conference Date: 2016/7  
Abstract  
Published  
Refereed?: Yes, Invited?: Yes
39. Diepstraten\*, Jessen\*, Galpern, McDermid, Musiani. (2016). Assessing Availability of Vegetation for Grizzly Bear Conservation and Research in the Canadian Subarctic. 24th International Association of Bear Research and Management Conference, Anchorage, United States  
Conference Date: 2016/6  
Poster  
Published  
Refereed?: Yes, Invited?: No
40. Jessen\*, Diepstraten\*, Massolo, McDermid, Musiani. (2016). Spatiotemporal features of tundra ecosystems influencing the abundance of grizzly bears inhabiting the barren-grounds of the Canadian Central Arctic. 24th International Association of Bear Research and Management Conference, Anchorage, United States  
Conference Date: 2016/6  
Abstract  
Published  
Refereed?: Yes, Invited?: No
41. Schweizer, Robinson, Harrigan, Silva, Galaverni, Musiani, Green, Novembre, Wayne. (2016). Evidence for environmentally driven functional variation in gray wolves. Evolution, Austin, United States  
Conference Date: 2016/6  
Abstract  
Published  
Refereed?: Yes, Invited?: No
42. Dubesky\*, Musiani. (2016). Stable Isotopic Analysis to test the effects of development and predation on Caribou decline. North American Caribou Workshop, Thunder Bay, Canada  
Conference Date: 2016/5  
Poster  
Published  
Refereed?: Yes, Invited?: No

43. Finnegan, Pigeon, MacNearney, Cranston, Hervieux, Hebblewhite, Musiani, Neufeld, Schmiegelow, Stenhouse. (2016). Towards caribou habitat recovery: Considering natural regeneration and resource selection by grizzly bears, wolves, and caribou to prioritize restoration of legacy seismic lines. North American Caribou Workshop, Thunder Bay, Canada  
Conference Date: 2016/5  
Abstract  
Published  
Refereed?: Yes, Invited?: No
44. Cavedon\*, Gubili\*, Heppenheimer, vonHoldt, Mariani, Musiani. (2016). Ecological genomics and conservation of caribou in western North America. 16th North American Caribou Workshop, Thunder Bay, Canada  
Conference Date: 2016/5  
Abstract  
Published  
Refereed?: Yes, Invited?: No
45. Jessen\*, Diepstraten\*, Massolo, McDermid, Musiani. (2015). Spatiotemporal features of tundra ecosystems influencing the abundance of grizzly bears inhabiting the barren-grounds of the Canadian Central Arctic. 22nd International Conference of the Wildlife Society. NOTE: OBTAINED 1st PRIZE as best Master's poster, Winnipeg, Canada  
Conference Date: 2016/10  
Poster  
Published  
Refereed?: Yes, Invited?: No
46. Diepstraten\*, Jessen\*, Galpern, McDermid, Musiani. (2015). Classifying Land Covers in the Central Arctic for Species of Concern. 11th ACUNS Student Conference, Calgary, Canada  
Conference Date: 2015/11  
Poster  
Published  
Refereed?: Yes, Invited?: No
47. Dubesky\*, Musiani. (2015). Stable Isotopic Analysis to test the effects of development and predation on Caribou. The Wildlife Society Annual International Conference, Winnipeg, Canada  
Conference Date: 2015/10  
Poster  
Published  
Refereed?: Yes, Invited?: No
48. Musiani, M. (2015). Ecological and genetic traits of threatened caribou: Conservation planning from the individual to the metapopulation. ICCB: 27th International Congress for Conservation Biology and 4th European Congress for Conservation Biology, Montpellier, France  
Conference Date: 2015/8  
Abstract  
Published  
Refereed?: Yes, Invited?: No
49. Jessen\*, Diepstraten\*, Massolo, McDermid, Musiani. (2015). Spatiotemporal features of tundra ecosystems influencing the abundance of grizzly bears inhabiting the barren-grounds of the Canadian Central Arctic. ICCB: 27th International Congress for Conservation Biology and 4th European Congress for Conservation Biology, Montpellier, France  
Conference Date: 2015/8  
Abstract  
Published  
Refereed?: Yes, Invited?: No

50. Musiani M. (2015). Variation of caribou from the individual to the metapopulation: reconciling management and evolutionary units. ACTWS 2015 Annual Conference Program, Edmonton, Canada  
Conference Date: 2015/3  
Abstract  
Published  
Refereed?: Yes, Invited?: No
51. Kermish-Wells\*, Stenhouse, Larsen, Massolo, Musiani. (2015). Bear predation simplified: Using just frequent location downloads and space-time. ACTWS 2015 Annual Conference, Edmonton, Canada  
Conference Date: 2015/3  
Abstract  
Published  
Refereed?: Yes, Invited?: No