

Jan E. Janecka, Ph.D.

ASSOCIATE PROFESSOR

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EDUCATION

- 2006 TEXAS A&M UNIVERSITY / TEXAS A&M-KINGSVILLE**
PhD in Wildlife Science, Joint Program (2002–2006)
Dissertation: *Conservation Genetics and Ecology of Ocelot with Recovery Implications in Texas*
Co-Advisors: Dr. Rodney Honeycutt & Dr. Michael Tewes
- 2002 UNIVERSITY OF VERMONT**
MS in Wildlife and Fisheries Biology (1999–2002)
Thesis: *Genetic Analysis of a Bobcat (Lynx rufus) Population in South Texas*
Co-Advisors: Dr. David Hirth & Dr. C. William Kilpatrick
- 1999 CORNELL UNIVERSITY**
BA in Biological Sciences with Honors (1995–1999)

PROFESSIONAL EXPERIENCE

- 2020–Present Associate Professor**
Department of Biological Sciences, Duquesne University
- 2014–2020 Assistant Professor** (population genetics, genomics, evolutionary genetics)
Department of Biological Sciences, Duquesne University
External Graduate Faculty Member, West Texas A&M University, 2015–present
External Graduate Faculty Associate Member, Texas A&M University, 2015–present
Graduate Faculty Affiliate Member, Texas A&M-Kingsville, 2014–present
- 2010–2013 Research Assistant Professor** (population genetics and genomics)
Department of Veterinary Integrative Biosciences, Texas A&M University
Faculty Member, Ecology & Evolutionary Biology Program, 2011–2013
Graduate Faculty External Member, Texas A&M-Kingsville, 2012–2013
Graduate Faculty Associate Member, Texas A&M University, 2011–2013
- 2006–2010 Post-Doctoral Associate** (evolutionary genetics, mammalian evolution)
Department of Veterinary Integrative Biosciences, Texas A&M University
Mentor: Dr. William J. Murphy
- 2002 Research Assistant** (ecology of bobcats and ocelots)
Caesar Kleberg Wildlife Research Institute, Texas A&M-Kingsville
Supervisor: Dr. Michael Tewes
- 2000 & 2002 Research Assistant** (summer position, sea lamprey surveys)
USFWS/University of Vermont Cooperative, Essex Junction, VT
- 1996–1999 Undergraduate Research Assistant** (environmental microbiology)
Department of Microbiology, Cornell University, Ithaca, NY
Mentor: Dr. William Ghiorse

CERTIFICATION/TRAINING

- 2018 Entering Mentoring**, Center for Teaching Excellence, Duquesne University, 18 May-25 June. Pittsburgh, PA.
- 2014 Summer Institutes on Scientific Teaching**, Howard Hughes Medical Institute and the National Academy of Sciences. 15–20 June. Cambridge, MA.
- 2003 Tools for Teaching and Learning Success**, Center for Teaching Effectiveness, Texas A&M University-Kingsville, Kingsville, TX.
- 2002 Chemical Immobilization of Animals**, Safe-Capture International, Snohomish, WA.

HONORS/FELLOWSHIPS/AWARDS

- Outstanding Mentor Award**. 2018. Department of Biological Sciences, Duquesne University. Awarded once a year to one faculty member in biological sciences.
- Best Scientific Paper Award**. 2016. Texas Chapter of the Wildlife Society 52nd Annual Meeting. Corpus Christi, TX for Janecka et al. (2014) *Plos One* manuscript on genetic erosion in ocelots.
- National Academies Education Fellow in Science**. 2014. Summer Institutes on Scientific Teaching, Howard Hughes Medical Institute and the National Academy of Sciences.
- East Asia and Pacific Summer Institutes–China Fellowship**. 2006. National Science Foundation.
- Welder Wildlife Foundation Doctoral Fellowship**. 2002–2006. Texas A&M University/Texas A&M University-Kingsville.
- Presidential Scholar Doctoral Fellowship**. 2003–2004. Texas A&M University-Kingsville.
- Welder Wildlife Foundation Masters Fellowship**. 2000–2002. University of Vermont.
- Howard Hughes Scholarship**. 1998–1999. Cornell University.

Awards/Fellowships Received by Student Mentees in the Janecka Genomics Laboratory

- Charlotte Hacker – **Fulbright Scholar Fellowship**, April 2019, *Bureau of Educational and Cultural Affairs*. US Department of State. Washington, DC.
- Jennifer Broderick – **Outstanding Teaching Award**, May 2019, *Center for Teaching Excellence*, Duquesne University.
- Charlotte Hacker – **Best Poster**, April 2019, *Graduate Research Symposium*, Duquesne University, Pittsburgh, PA.
- Brooke Driscoll – **Best Poster**, April 2019, *Undergraduate Research Symposium*, Office of the Provost, Duquesne University, Pittsburgh, PA.
- Jennifer Broderick – **Outstanding Graduate Student Award**, May 2018, Department of Biological Sciences, Duquesne University, Pittsburgh, PA.
- Colton Ames – **Bayer School Excellence Award in Forensic Science and Law**, May 2017, Duquesne University.
- Nickola Walker – **Best Poster Presentation in Forensic Science**, May 2017, *Phi Lambda Upsilon Chemistry Research Symposium*, Pittsburgh, PA.
- Nick Walker – **Honorable Mention for Best Poster**, 5 April 2017, *Undergraduate Research Student Symposium*, Duquesne University.
- Colton Ames – **Student Presentation Grant**, April 2017, *Annual Conference of the Pennsylvania Chapter of the Wildlife Society*, Lake Rayburn, PA.
- Nick Walker – **Student Presentation Grant**, April 2017, *Annual Conference of the Pennsylvania Chapter of the Wildlife Society*. Lake Rayburn, PA.
- Sarah Sprauer – **Outstanding Senior Biology Student Award**, May 2016, Duquesne University, (Sarah received BS in 2016 with an Honors thesis on bobcat genomics).
- Sarah Sprauer – **Mitch Johnson Award** (for service to community), May 2016, Duquesne University.
- Matt Jevit – **Phi Kappa Phi National Honors Society's Outstanding Research Award**, 6 November 2015, *The 3rd Annual Graduate Research Student Symposium*, Duquesne University.

TEACHING EXPERIENCE

BIOL/BTGY 419/519 Bioinformatics: Analysis of Molecular and Genomic Data <i>3 credits, Duquesne University.</i> Introduction to bioinformatics including sequence analysis, proteins, phylogenetics, population genetics, next generation sequence, genomics, and RNAseq. Taught every year to upper-level undergraduate and graduate students. 5 to 24 students.	2015–present (Fall) <i>every year</i>
BIOL 250: Genetics <i>3 credits, Duquesne University.</i> Basic genetics taught every year to majors and non-majors. 56 to 103 students.	2014–present (Spring) <i>every year</i>
BIOL 646: Advanced Topics: Illumina Sequencing and NGS Analysis <i>1 credit, Duquesne University.</i> NGS Library preparation, sequencing on Illumina MiSeq, bioinformatics analysis of data, 9 students.	2019 (Spring)
BIOL 494/594/ENVI 594 Environmental Sampling and Analysis <i>3 credits, Duquesne University.</i> (Co-taught with Dr. Beth Dakin) Techniques for environmental analysis. Janecka covered biodiversity assessments, population surveys, and microsatellite analysis. 6 students.	2017, 2019 (Summer) <i>odd years</i>
BTGY 508 Biotechnology, Guest Lecturer <i>3 credits, Duquesne University.</i> (Taught by Dr. Alan Seadler) Introduction to biotechnology. Janecka covers 2-week section on bioinformatics. 6 to 10 students.	2015–present (Fall) <i>every year</i>
BIOL 398/399 Undergraduate Research <i>1-3 credits, Duquesne University.</i> Independent laboratory research. 0-2 students per semester.	2014–present (Spring/Fall)
BIOL 490/690 Biology Seminar <i>1 credit, Duquesne University.</i> This course introduces students to public presentation and scientific communication. 50 students.	2015 (Fall)
BIOL 646: Advanced Topics: Bioinformatics – Analysis of Genomic Data <i>3 credits, Duquesne University.</i> Approaches and methods for genomic analyses using next generation sequencing. Included lab component introducing Linux and bioinformatics software. 12 students.	2014 (Fall)
BIOL 394: Undergraduate Biology Seminar <i>1 credit, Duquesne University.</i> Writing intensive course on preparing scientific manuscripts and presentations. 3 students.	2014 (Fall)
VIBS 489/689/WFS 489/689 Special Topics in Mongolia – Conservation Genetics and Conservation Medicine (<i>Study Abroad Course</i>) <i>3 credits, Texas A&M University.</i> (Janecka lead instructor; co-taught with Dr. William Murphy and Dr. Christine Budke) In-depth immersion course in Gobi-Altai Mountains based around a snow leopard survey. Topics included conservation biology and veterinary medicine. 10 students.	2012 (Summer)
BIMS/VIBS 285/485/491 Directed Studies <i>3 credits, Texas A&M University.</i> Independent undergraduate research in molecular biology and genetics culminating in scientific writing and presentations. 1 to 2 students each semester.	2010–2013 (Spring/Fall)
Invited Faculty at Workshop – Section Taught: “Molecular Methods for Characterization, Conservation and Utilization of Biodiversity” <i>Association for the Promotion of DNA Finger Printing and Associated DNA Technologies, The Center for Cellular and Molecular Biology, Hyderabad, India.</i> 26 February to 12 March. <u>Organizer</u> : Dr. Ramesh K. Agarwal. Introduction to population genetics and phylogenetics.	2011 (Spring)

Invited Faculty at Workshop, Section Taught: “Wildlife Research Techniques in Rugged Mountainous Environments in Asia”

2010 (Summer)

Ugyen Wangchuck Institute of Conservation and the Environment, Bumthang, Bhutan. 16 to 19 May. Organizer: Dr. Scott Mills.

Introduction to molecular and genetic techniques and their applications to wildlife management and conservation. Culminated in book on wildlife monitoring methods published in Bhutan.

ORGANIZATIONS/MEMBERSHIPS

- IUCN/SSC Cat Specialist Group. 2005–present.
- The Wildlife Society. 2014–Present.
- Carnegie Museum of Natural History & Powdermill Nature Reserve, Research Associate Joint Appointment. 2017–Present.
- International Wildlife Management Working Group of the Wildlife Society. 2014–present.
- Species Survival Trust, Science Director. 2013–Present.
- Snow Leopard Network. 2009–Present.
- Ocelot Recovery Implementation Team, United States Fish and Wildlife Service. 2010–2014.
- Service Ocelot Translocation Working Group, United States Fish and Wildlife. 2010–2014.
- Smithsonian Institution, Research Collaborator. 2008–2010.

SERVICE

- *Biosafety Committee*, Duquesne University, Chair (2020-present).
- *Undergraduate Curriculum Committee*, Department of Biological Sciences, Duquesne University (2017-present).
- *Outstanding Graduate Student Award Committee*, Department of Biological Sciences, Duquesne University (2019).
- *Creative Teaching Award Committee* (Faculty award), Center for Teaching Excellence, Duquesne University (2018 & 2019).
- *Bayer Fellowship Award Committee* (Graduate student award), Department of Biological Sciences, Duquesne University (2018).
- *Tenure-Track Faculty Search Committee*, search for a tenure-track Assistant Professor appointment in the Center for Environment Research and Education, Duquesne University (2016 & 2017).
- *Qualifying Exam Committee*, Doctoral Program in Biological Sciences, Duquesne University (2015).
- *Biological Sciences Seminar Series, Organizer*, Department of Biological Sciences, Duquesne University (Fall 2015).
- *Executive Committee*, Interdisciplinary Research Program in Ecology & Evolutionary Biology, Texas A&M University (2013).
- *Curriculum Chair*, Interdisciplinary Research Program in Ecology and Evolutionary, Texas A&M University (2013).
- *Asia Pacific Rim Sub-Committee of the International Program Committee*, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University (2012-2013).
- *Faculty Advisor*, Aggies for Protection of Endangered Species Student Club, Texas A&M University (2011-2013).
- *External Reviewer*, Snow Leopard Conservation Grants Program (2010, 2011, 2016).
- *Presentation and Poster Judge*, Graduate Student Association Symposium, Texas A&M University (2009, 2010, 2011).

- Trained lab technicians, field biologists, and provided technical assistance to international institutions including Center for Molecular Dynamics Nepal (Kathmandu, Nepal), Mongolian Academy of Sciences (Ulaanbaatar, Mongolia), World Wildlife Fund (Mongolia & Kyrgyzstan), and Ugyen Wangchuck Institute of Conservation and the Environment (Bumthang, Bhutan).
- *Ad Hoc Reviewer*: Acta Theriologica, BMC Evolutionary Biology, BMC Genomics, BMC Research Notes, BMC Veterinary Research, Cat News, Conservation Genetics, Current Zoology, Diversity, Ecology and Evolution, European Journal of Wildlife Research, Journal of Biogeography, Journal of Heredity, Journal of Mammalogy, Journal of Threatened Taxa, Journal of Zoology, Mammalia, Molecular Ecology, Molecular Ecology Notes, PLoS ONE, Ursus, Wildlife Society Bulletin.

PEER-REVIEWED JOURNAL PUBLICATIONS (53)

Duquesne Students*

1. Hacker* CE, Janecka JE, Jackson RM, Li D, Zhang Y (In Press) Pastoralism Partnerships: Recognizing the value of local involvement in China's Snow Leopard Conservation Efforts. *Sustainability* Proofs submitted 7 August 2020.
2. Wells* M, Kanmanii* NJ, Zadjali* AMA, Janecka JE, Basu P, Oremland RS, Stolz JS (2020) Methane, arsenic, selenium and the origins of the DMSO reductase family. *Scientific Reports* 10:10946.
3. Hacker* CE, Yunchuan D, Yifan C, Zhang Y, Zhang YG, Miller LJ, Janecka JE. (2020) Determinants of herder attitudes towards the threatened snow leopard (*Panthera uncia*) in Yushu Prefecture, China. *Oryx*. Published online 2 Jun 2020. doi:10.1017/S0030605319001315
4. Zhang YG, Hacker* C, Zhang Y, Xue Y, Wu L, Dai Y, Luo P, Xierannima, Janecka JE, Li D. (2019) An analysis of genetic structure of snow leopard populations in Sanjiangyuan and Qilianshan National Parks. *Acta Theriologica Sinica* 39:442–449.
5. Felkel S, Vogl C, Rigler D, Dobretsberger V, Chowdhary BP, Ottmar Distl O, Fries R, Jagannathan V, Janečka JE, Leeb T, Lindgren G, McCue M, Metzger J, Neuditschko M, Rattei T, Raudsepp T, Rieder S, Rubin C-J, Schaefer R, Schlötterer C, Thaller G, Tetens J, Velie B, Brem G, Wallner B (2019). The horse Y chromosome as an informative marker for tracing sire lines. *Scientific Reports* 9:6095:1–12.
6. **Janecka JE**, Davis B, Ghosh S, Paria N, Das PJ, Orlando L, Schubert M, Nielsen M, Stout TAE, Brashear W, Li G, Johnson C, Metz R, AMA Zadjali*, Love CL, Varner DD, Bellott DW, Murphy W, Chowdhary BP, Raudsepp T (2018) Horse Y chromosome assembly displays unique evolutionary features and putative stallion fertility genes. *Nature Communications* 9:2945:1–15.
7. Janecka JE, Janecka MJ, Helgen K, Murphy WJ. (2018) The validity of three snow leopard subspecies: response to Senn et al. *Heredity* 120:586–590.
8. Warzecha CM, Coverdale JA, **Janecka JE**, Leatherwood JL, Pinchak WE, Wickersham TA, McCann JC (2017) Influence of short-term dietary starch inclusion on the equine cecal microbiome. *Journal of Animal Science* 95:5077–5090.
9. Gatesy J, Meredith R, **Janecka JE**, Simmons M, Murphy WJ, Springer M (2017) Resolution of a concatenation/coalescence kerfuffle: Partitioned coalescence support and a robust family-level tree of Mammalia. *Cladistics* 33:295–332.
10. **Janecka JE**, Zhang Y, Li D, Munkhtsog B, Bayaraa M, Galsandorj N, Wangchuk TR, Karmacharya D, Li J, Zhi L, Uulu KZ, Gaur A, Kumar S, Hussain S, Muhammad G, Jevit* M, Hacker* C, Burger P, Wultsch C, Janecka MJ, Helgen K, Murphy WJ, Jackson R (2017) Range-wide snow leopard phylogeography supports three subspecies. *Journal of Heredity* 108:597–607. **Journal Cover.**
11. Merson C, Statham MJ, **Janecka JE**, Lopez RE, Sacks BN (2017) Distribution of native and nonnative ancestry in red foxes along an elevational gradient in Central Colorado. *Journal of Mammalogy* 98:365–377.

12. Springer MS, Emerling CA, Meredith RW, **Janecka JE**, Eizirik E, Murphy WJ (2017) Waking the undead: implications of a soft explosive model for the timing of placental mammal diversification. *Molecular Phylogenetics and Evolution* 106:86–102.
13. Karmacharya D, Manandhar S, Shakya J, Thapa K, Bista M, Sah GP, Sharma A, Sherchan A, Dhakal M, **Janecka JE**, Kelly M, Waits L (2016) Incidental discovery of non-focal carnivore species during genetic study of Bengal tiger (*Panthera tigris tigris*) and snow leopard (*Panthera uncia*) in Nepal. *Asian Journal of Conservation Biology* 5:81–88.
14. Rafati M, Andersson LS, Mikko S, Feng C, Raudsepp T, Pettersson J, **Janecka JE**, Wattle O, Ameer A, Thyreen G, Eberth J, Huddleston J, Malig M, Bailey E, Eichler E, Penedo C, Dalin G, Chowdhary B, Andersson L, Lindgren G, Rubin C-J (2016) Large deletions at the SHOX locus in the Pseudoautosomal Region are associated with Skeletal Atavism in Shetland Ponies. *G3 Genes Genomes Genetics* 6:2213–2223.
15. **Janecka JE**, Tewes ME, Davis IA, Haines A, Caso A, Blankenship T, Honeycutt RL (2016) Genetic differences in the response to landscape fragmentation by a habitat generalist, the bobcat, and a habitat specialist, the ocelot. *Conservation Genetics* 17:1093–1108.
16. **Janecka JE**, Nielsen SSE, Andersen SD, Hoffman FG, Weber RE, Anderson* T, Storz JF, Fago A (2015) Genetically based low oxygen affinities of felid hemoglobins: lack of biochemical adaptation to high-altitude hypoxia in the snow leopard. *Journal of Experimental Biology* 218:2402–2409.
17. Rodgers TW, Giacalone J, Heske EJ, **Janecka JE**, Jansen PA, Phillips, CA, Schooley RL (2015) Socio-spatial organization and kin structure in ocelots from integration of camera trapping and noninvasive genetics. *Journal of Mammalogy* 96:120–128.
18. Avila F, Baily MP, Merriwether DA, Trifonov VA, Rubes J, Kutzler M, Chowdhary R, **Janecka JE**, Raudsepp T (2015) A cytogenetic and comparative map of camelid chromosome 36 and the minute in alpacas. *Chromosome Research* 23:237–251.
19. Rodgers T, Giacalone J, Heske E, **Janecka JE**, Phillips C, Schooley R (2014) Support for fecal noninvasive genetics as a valid technique for estimating population density of elusive animals. *Tropical Conservation Science* 7:690–705. **Journal Cover.**
20. Statham MJ, Murdoch J, **Janecka JE**, Aubry KB, Edwards CJ, Soulsbury CD, Berry O, Wang Z, Harrison D, Pearch M, Tomsett L, Chupasko J, Sacks B (2014) Range-wide multilocus phylogeography of the red fox reveals ancient continental divergence, minimal genomic exchange and distinct demographic histories. *Molecular Ecology* 23:4813–4830.
21. **Janecka JE**, Tewes ME, Laack L, Caso A, Grassman LI, Honeycutt RL (2014) Loss of genetic diversity among ocelots in the United States during the 20th century linked to human induced population reductions. *Plos One* 9:2:e98384:1–10.
22. **Janecka JE**, Jackson R, Munkhtsog B, Murphy WJ (2014) Characterization of 9 microsatellites and primers in snow leopards and a species-specific PCR assay for identifying noninvasive samples. *Conservation Genetic Resources* 6:369–373.
23. Rodgers T, **Janecka JE** (2013) Applications and techniques for non-invasive faecal genetics research in felid conservation. *European Journal of Wildlife Research* 59:1–16.
24. Holbrook JD, De Young RW, **Janecka JE**, Tewes ME, Honeycutt RL, Young JH (2012) Genetic diversity, population structure, and movements of mountain lions (*Puma concolor*) in Texas. *Journal of Mammalogy* 93:989–1000.
25. **Janecka JE**, Chowdhary B, Murphy WJ (2012) Exploring the correlations between sequence evolution rate and phenotypic divergence across the mammalian tree provides insights into adaptive evolution. *Journal of Bioscience* 37:1–13.
26. Murphy WJ, **Janecka JE**, Stadler T, Eizirik E, Ryder OA, Gatesy J, Meredith RW, Springer MS (2012) Response to comment on “Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on Mammal Diversification”. *Science* 337:34–35.
27. Rosen T, Hussain S, Mohammad G, Jackson R, **Janecka JE**, Michel S (2012) Reconciling sustainable development of mountain communities with large carnivore conservation. *Mountain Research and Development* 32:286–293. Translated to Russian.
28. Springer MS, Meredith R, Gatesy J, Emerling C, Park J, Rabosky D, Stadler TC, Ryder O, **Janecka JE**, Fisher C, Murphy W (2012) Macroevolutionary dynamics and historical biogeography of primate diversification inferred from a species supermatrix. *PLoS ONE* 7:11:e49521:1–23.

29. Steelman S, Chowdhary B, Suchodolski J, Dowd S, **Janecka JE** (2012) Pyrosequencing of 16s rRNA Genes in fecal samples reveals high diversity of hindgut microflora in horses and potential links to chronic laminitis. *BMC Veterinary Research* 8:231:1–11.
30. Anwar MB, Jackson R, Nadeem MS, **Janecka JE**, S Hussain, Beg MA, Ghulam M, and Qayyum M (2011) Food habits of snow leopard *Panthera uncia* (Schreber, 1775) in Baltistan, Northern Pakistan. *European Journal of Wildlife Research* 57:1077–1083.
31. Gilad O, **Janecka JE**, Armstrong F, Tewes ME, Honeycutt TL (2011) Mountain lions in Guadalupe Mountains National Park: Estimates of occurrence and distribution through DNA analysis. *The Southwestern Naturalist* 56:297–304.
32. **Janecka JE**, Munkhtsog B, Jackson RM, Mallon DP, Naranbaatar G, Murphy WJ (2011) Comparison of noninvasive genetic and camera-trapping techniques for surveying snow leopards. *Journal of Mammalogy* 92:771–783.
33. **Janecka JE**, Tewes ME, Laack LL, Caso A, Grassman LI Jr, Haines AM, Shindle D, Davis B, Murphy WJ, Honeycutt RL (2011) Reduced genetic diversity and isolation of remnant ocelot populations occupying a severely fragmented landscape in southern Texas. *Animal Conservation* 14:608–619.
34. Karmacharya DB, Thapa K, Shrestha R, Dhakal M, **Janecka JE** (2011) Noninvasive genetic population survey of snow leopards (*Panthera uncia*) in Kangchenjunga Conservation Area, Shey Phoksundo National Park and surrounding buffer zones of Nepal. *BMC Research Notes* 4:1–8.
35. Li G, **Janecka JE**, Murphy WJ (2011) Accelerated evolution of *CES7*, a gene encoding a novel major urinary protein in the Cat Family. *Molecular Biology and Evolution* 28:911–920.
36. *Meredith, RW, ***Janecka JE** (Co-first authors contributed equally), Gatesy J, Ryder OA, Fisher CA, Teeling EC, Alisha Goodbla A, Eizirik E, Simão TLL, Stadler T, Rabosky DL, Honeycutt RL, Flynn JF, Ingram CI, Steiner C, Williams TL, Robinson TJR, Burk-Herrick A, Westerman M, Ayoub NA, *Springer MS, *Murphy WJ (2011) Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on extant mammal diversification. *Science* 334:521–524. *First and last authorship determined by coin flip.
37. Springer MS, Meredith RW, **Janecka JE**, Murphy WJ (2011) The historical biogeography of Mammalia. *Philosophical Transactions of the Royal Society B: Biological Sciences* 366:2478–2502.
38. Miller W, Drautz DI, **Janecka JE**, Lesk AM, Ratan A, Tomsho LP, Packard M, Zhang Y, McClellan LR, Qi J, Zhao F, Gilbert MTP, Dalén L, Arsuaga JL, Ericson PGP, Huson DH, Helgen KM, Murphy WJ, Götherström A, Schuster SC (2009) The mitochondrial genome sequence of the Tasmanian tiger (*Thylacinus cynocephalus*). *Genome Research* 19:213–220. Journal Cover.
39. **Janecka JE**, Jackson R, Zhang Y, Li D, Munkhtsog B, Buckley-Beason V, Murphy WJ (2008) Population monitoring of snow leopards using noninvasive collection of scat samples: A pilot study. *Animal Conservation* 11:401–411. Journal Cover.
40. **Janecka JE**, Lim NT-L, Baba M, Izawa M, Boeadi, Murphy WJ (2008) Evidence for multiple species of Sunda colugo. *Current Biology* 18:R1001–R1002.
41. **Janecka JE**, Tewes ME, Laack LL, Grassman LI Jr, Haines AM, Honeycutt RL (2008) Small effective population sizes of two remnant ocelot populations (*Leopardus pardalis albescens*) in the United States. *Conservation Genetics* 9:869–878.
42. **Janecka JE**, Blankenship TL, Hirth DH, Kilpatrick CW, Tewes ME, Grassman LI Jr (2007) Evidence for male-biased dispersal in bobcats *Lynx rufus* using relatedness analysis. *Wildlife Biology* 13:38–47.
43. **Janecka JE**, Grassman LI Jr, Honeycutt RL, Tewes ME (2007) Whole genome amplification for sequencing and applications in conservation genetics. *The Journal of Wildlife Management* 71:1357–1360.
44. **Janecka JE**, Miller W, Pringle TH, Wiens F, Zitzmann A, Helgen KM, Springer MS, Murphy WJ (2007) Molecular and genomic data identify the closest living relative of primates. *Science* 318:792–795.
45. **Janecka JE**, Walker CW, Tewes ME, Caso A, Laack LL, Honeycutt RL (2007) Phylogenetic relationships of ocelot (*Leopardus pardalis albescens*) populations from the Tamaulipan

Biotic Province and implications for recovery. *Southwestern Naturalist* 52:89–96. **Journal Cover.**

46. Grassman LI, Haines AM, **Janecka JE**, Tewes ME (2006) Activity periods of photo-captured mammals in northcentral Thailand. *Mammalia* 70:306–309.
47. Grassman LI, **Janecka JE**, Austin SC, Tewes ME, Silvy NJ (2006) Chemical immobilization of free-ranging dhole (*Cuon alpinus*), binturong (*Arctis binturong*), and yellow-throated marten (*Martes flavigula*) in Thailand. *European Journal of Wildlife Research* 52:297–300.
48. Haines AM, Grassman LI, **Janecka JE**, Tewes ME (2006) First ocelot (*Leopardus pardalis*) monitored with GPS telemetry. *European Journal of Wildlife Research* 52:216–218.
49. Haines AM, **Janecka JE**, Tewes ME, Grassman LI, Morton P (2006) The importance of private lands for ocelot *Leopardus pardalis* conservation in the United States. *Oryx* 40:1–5.
50. **Janecka JE**, Blankenship TL, Hirth DH, Tewes ME, CW Kilpatrick, LI Grassman Jr (2006) Kinship and social structure of bobcats (*Lynx rufus*) inferred from microsatellite and radio-telemetry data. *Journal of Zoology (London)* 269:494–501
51. **Janecka JE**, Grassman LI Jr, Derr JN, Honeycutt RL, Eiadthong W, Tewes ME (2006) Rapid whole genome amplification of DNA from felids: Applications for conservation genetics. *Wildlife Society Bulletin* 34:1134–1141.
52. **Janecka JE**, Jenkins MB, Brackett NS, Lion LW, Ghiorse WC (2002) Characterization of a *Sinorhizobium* isolate and its extracellular polymer implicated in pollutant transport in soil. *Applied and Environmental Microbiology* 68:423–425.
53. Pimentel D, McNair S, **Janecka JE**, Wightman J, Simmonda C, O'Connell C, Wong E, Russel L, Zern J, Aquino T, Tsomondo T (2001) Economic and environmental threats of alien plant, animal, and microbe invasions. *Agriculture, Ecosystems and Environment* 84:1–20.

PEER-REVIEWED JOURNAL PUBLICATIONS – IN REVIEW

Duquesne Students*

1. Hacker* CH, Jevit MJ, Hussain S, Muhammad G, Munkhtsog Bar., Munkhtsog Bay., Zhang Y, Li D, Liu Y, Farrington J, Balbakova F, Almanov A, Kurmanaliev O, Buyanaa C, Bayandonoi G, Ochirjav M, Liang X, Bian X, Weckworth B. Jackson R, **Janecka JE**. (Accepted Pending Revision) Regional comparison of snow leopard (*Panthera uncia*) diet via NGS sequencing of 12S and COI markers. *Biodiversity and Conservation*. Revision submitted 7 August 2020.

BOOK CHAPTERS (5)

1. **Janecka JE**, Hacker* C, Broderick* J, Pulugulla* S, Auron P, Ringling* M, Nelson* B, Munkhtsog B, Hussain S, Davis B, Jackson R. (2020) Noninvasive genetics and genomics shed light on the status, phylogeography, and evolution of the elusive snow leopard. Pp. 83–121. In: *Conservation Genetics in Mammals-Integrative Research Using Novel Approaches*. J. Ortega and J. E. Maldonado, Editors. Springer, Switzerland.
2. **Janecka JE**, Janecka MJ (2018) Order Dermoptera. Family Cynocephalidae (Colugos). Pp 272–287. In: *The Handbook of the Mammals of the World, Insectivores, Sloths and Colugos*, Volume 8 (D. Wilson editor). Lynx Edicion, Barcelona, Spain.
3. **Janecka JE**, Alves P, Karmacharya D, Samsel N, Tallmon D, Schwartz M, Cheng E (2013) Wildlife genetics in rugged landscapes: methods, applications, and examples. Pp. 35–61. In: *Wildlife Research Techniques in Rugged Mountainous Asian Landscapes*. Scott L. Mills & Tshering Tempa, Editors. Ugyen Wangchuck Institute for Conservation and Environment, Bhutan.
4. **Janecka JE**. (2012) Tracks of my soul. Pp. 25–31. In: *Snow Leopard Stories from the Roof of the World*. Don Hunter, Editor. University Colorado Press, Boulder, CO.
5. Grassman LI, **Janecka JE**, Tewes ME (2006) Ecological separation of *Martes flavigula* with 5 sympatric mesocarnivores in northcentral Thailand. Pp. 63–73. In: *Martes in Carnivore Communities: Proceedings of the 4th International Martes Symposium*. Santos-Reis M, Proulx G, Birks JDS, O'Doherty EC, Editors. Alpha Wildlife Publications, Sherwood Park, Alberta, Canada.

NON-PEER REVIEWED PUBLICATIONS

- Janecka, JE** (2016) Book Review. Large Carnivore Conservation: Integrating Science and Policy in the North American West. Susan G. Clark and Murray B. Rutherford, editors. 2014. The University of Chicago Press, Chicago, Illinois, USA. 407 pp. *Journal of Wildlife Management* 80:772–773.
- Janecka, JE** (2012) Identifying genes contributing to the white coat color in tigers and associated phenotypic disorders. *Feline Conservation Federation* 56:32–33.
- Haines AM, Tewes ME, **Janecka JE**, Grassman LI (2007) Evaluating the benefits and costs of ocelot recovery in southern Texas. *Endangered Species UPDATE* 24:35–40.
- Grassman LI, Haines AM, **Janecka JE**, Tewes ME (2006) Activity periods of birds in Thailand as determined by camera trapping. *Tigerpaper* 33:1–3.
- Haines AM, Tewes ME, Grassman LI, **Janecka JE** (2006) Identifying culvert sites to reduce ocelot vehicle collisions. *Wild Cat News* 2:27–32.
- Haines AM, Tewes ME, Grassman LI, **Janecka JE** (2006) Reducing ocelot vehicle collisions. *Wild Cat News* 2:1–6.
- Janecka JE**, Jackson R, Zhang Y, Li D, Munkhtsog B, Buckley-Beason V, Murphy WJ (2008) Population monitoring of snow leopards using noninvasive genetics. *Cat News* 48:7–10.

SECURED FUNDING

- | | |
|------------------|---|
| 2018-2019 | Determination of snow leopard (<i>Panthera uncia</i>) prey use and livestock dependence using noninvasive genetic analyses and its conservation implications.
<i>Chicago Zoological Society Chicago Board of Trade Endangered Species Fund</i>
PI: C. Hacker, coPI: JE Janecka |
| 2019 | Collaborative Research: A Phylogeny of Placental Mammals based on Paleocene Taxa: Determining the Impact of the K-Pg Extinction on Mammalian Evolutionary History.
NSF REU Supplement
PI: JE Janecka |
| 2017-2018 | Improving Conservation through Science: Snow Leopard Livestock Depredation, Food Habits, and Landscape Genetics.
<i>Snow Leopard Conservancy</i>
PI: JE Janecka |
| 2018 | African White-Bellied Pangolin Genetics to Assist with Captive Management Program.
<i>Pittsburgh Zoo & PPG Aquarium</i>
PI: JE Janecka |
| 2018 | Incorporating regional population status and genetic distinction into conservation of snow leopards in Kunlun Mountains, China. <i>Cleveland Metroparks Zoo</i>
PI: C Hacker, coPI: JE Janecka |
| 2018 | Snow leopard (<i>Panthera uncia</i>) prey use and dependence on livestock in Qinghai, China and its implications for conservation. <i>Panthera-Sabin</i>
PI: C Hacker, coPI: JE Janecka |
| 2018 | Construction of the first genetic linkage map Arabian Dromedarian camels and characterization of genome diversity. <i>Government of Oman</i>
PIs: JE Janecka, AM Al Zadjali |
| 2017–2021 | Collaborative Grant: A phylogeny of mammals based on Paleocene taxa: The impact of the K-PG extinction on mammalian evolutionary history. <i>National Science Foundation</i>
PIs: J Wible (Lead Institution). Co-PIs: JE Janecka, T Williamson, S Brusatte, M Spaulding |

- 2017–2018 Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit.**
PIs: N Walter (Janecka's MS student), JE Janecka
- 2017–2018 The RoarPlex – A novel tetranucleotide microsatellite and sex-ID panel for accurate individual identification of felids.**
PIs: C Ames (Janecka's MS student), JE Janecka
- 2017 Travel Award – Invited Speaker/Participant at the *International Snow Leopard Forum* of the Global Snow Leopard and Ecosystem Protection Program.**
World Wildlife Fund
PI: JE Janecka
- 2015–2016 Genetic analysis of noninvasively collected snow leopard scat samples from Asia's high mountain countries.**
World Wildlife Fund
PI: JE Janecka
- 2015–2016 Genetic analysis of noninvasively collected snow Leopard scat samples from Kyrgyzstan.**
World Wildlife Fund
PI: JE Janecka
- 2015–2016 Analysis of temporal variation in prey use and livestock depredation of snow leopards (*Panthera uncia*) in Pakistan and potential links to climate change.**
Snow Leopard Conservation Grants Program
PIs: M Jevit (Janecka's MS student), JE Janecka
- 2014–2016 Adaptations of snow leopards to high-altitude and refinement of next-generation sequencing.**
Duquesne Faculty Development Fund
PI: JE Janecka
- 2016 Analysis of temporal variation in prey use and livestock depredation of snow leopards (*Panthera uncia*) in Pakistan and potential links to climate change.**
Explorer's Club
PIs: M Jevit (Janecka's MS student), JE Janecka
- 2014–2016 Snow leopard genomics and prey use.**
The Snow Leopard Conservancy
PI: JE Janecka
- 2014 Project Snow Leopard – noninvasive genetic analysis**
Safari Club International
PI: S Hussain, Research Collaborator: JE Janecka
- 2013–2015 The response of the equine hindgut microbial community to increased carbohydrate consumption.**
Morris Animal Foundation
PI: JE Janecka, Co-PIs: B Chowdhary, J Coverdale
- Prior to Duquesne*
- 2012–2014 Sequencing and functional analysis of the horse Y chromosome.**
USDA – AFRI
PI: B. Chowdhary, Co-PI: T Raudsepp, JE Janecka, C Johnson
- 2013–2014 Ecology and Evolutionary Biology Program.**
Tier One Program (TOP): Integration of Multidisciplinary Research and Creative Activities into the Learning Experience
Lead PI: GG Rosenthal. Co-PIs: AR Armitage, DE Baumgardner, ST Behmer, JE Janecka, GW Moore, WJ Murphy, TD Olszewski, MJ Peterson, AS Quigg, WE Rogers, MA Slotman
- 2011–2013 Population status, distribution, and conservation genetics of snow leopards in Central Asia.**
Snow Leopard Conservancy

- PI: JE Janecka
2012–2013 Status and conservation of snow leopards in the transboundary Altai region of Russia and Mongolia.
Mohamed Bin Zayed Species Conservation Fund
 PI: R Jackson, Co-PIs: B Munkhtsog, M Paltsyn, JE Janecka
- 2012–2013 Tiger genomics program.**
The Institute for Greatly Endangered and Rare Species
 PI: JE Janecka
- 2012–2013 Doctoral research program in genomics and ecological genetics to develop future leaders in science.**
Pathways to a Doctorate Fellowship Program, Associate Provost of Graduate Studies, Texas A&M University
 PI: JE Janecka, Co-PIs: B Chowdhary, T Raudsepp, W Murphy, C Seabury, J Womack, G Rosenthal, C Criscione
- 2012 Mongolia study abroad funds for student scholarships.**
International Program, College of Veterinary Medicine and Biomedical Sciences (TAMU)
 PI: Jan Janecka, Co-PIs: C Budke, WJ Murphy
- 2010–2011 Evolution, phylogeography, and population structure of snow leopards in Central Asia.**
Postdoctoral Trainee Research Grant, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University
 PI: JE Janecka
- 2010–2011 Status, distribution, and population connectivity of the snow leopard in Mongolia and implications for conservation.**
Snow Leopard Conservation Grants Program
 PIs: N Galsandorj, B Munkhtsog, JE Janecka
- 2007–2010 Landscape genetics of the snow leopard in Mongolia, Pakistan, and Nepal.**
Snow Leopard Conservancy
 PIs: JE Janecka, Co-PI: WJ Murphy
- 2009–2010 Population status and distribution of the snow leopard in China.** *Snow Leopard Conservation Grants Program*
 PI: JE Janecka, Co-PI: WJ Murphy
- 2008–2009 Status, distribution, and conservation genetics of the snow leopard in Central Asia.**
National Geographic Society
 PI: JE Janecka, Co-PIs: WJ Murphy, R Jackson
- 2008–2009 Conservation genetics of endangered ocelot in Texas and Northern Mexico.**
Texas Parks and Wildlife Department
 PI: JE Janecka, Co-PI: RL Honeycutt,
- 2001 Genetic analysis of a bobcat population in south Texas.** *American Museum of Natural History*
 Student Grant: JE Janecka

INVITED SEMINARS

- 2018 Forensic DNA Testing of Deer in Western Pennsylvania**
 PA Game Commission Southwestern Region Annual Meeting. Bolivar, Pennsylvania. 13 September.
 JE Janecka, M Quain
- 2017 Rangewide snow leopard phylogeography supports three subspecies**
 International Snow Leopard Forum. Global Snow Leopard & Ecosystem Protection Program. Bishkek, Kyrgyzstan. 23 August.
- 2017 Evolution at high altitude: Snow leopard phylogeography, origin, and adaptation to**

- hypoxia**
Utah State University. 29 March.
- 2015 Conservation and population genetics of snow leopard**
Millersville University. 15 November.
- 2015 Snow leopards conservation genetics: Applying science to protect an iconic species**
Westminster College. 30 October.
- 2015 Snow Leopards: Adventures in ecology, conservation, and genetics**
University of Pittsburgh, 14 October.
- 2015 Conservation and genetics of an iconic species: The snow leopard**
Edinboro University of Pennsylvania. 26 March.
- 2014 Snow leopard conservation genetics – Applying science to protect an iconic species**
Slippery Rock University. 3 October.
- 2014 Snow leopards of Central Asia: Conservation & research in partnership with local communities**
The R.W. Moriarty Science Seminar, Carnegie Museum. 10 September.
- 2014 Conservation genetics of snow leopards in partnership with local communities**
Smithsonian Institute – The National Museum of Natural History. 21 May.
- 2014 Snow leopards of Central Asia**
Pittsburgh Zoo and PPG Aquarium. 15 March, morning.
- 2014 Conservation and research of snow leopards in partnership with local people**
Pittsburgh Zoo and PPG Aquarium. 15 March, afternoon.
- 2013 Equine health**
Texas AgriLife. College Station, Texas. 10 July.
- 2013 Mountain lions of Texas**
Texas Master Naturalist. Bryan, Texas. 13 June
- 2013 Contribution of genomics to the conservation and management of species.**
Department of Biology, Duquesne University, 1 February.
- 2012 Saving the snow leopards of Central Asia in partnership with local people (Joint talk – Rod Jackson & Jan Janecka)**
Houston Zoo and the Asia Society. Houston, Texas. 20 November.
- 2012 Snow leopard conservation in Mongolia**
Texas A&M Student Chapter of the Society Conservation Biology. 11 October.
- 2012 Genetic erosion in the Texas ocelot population and potential consequences to health and recovery**
Texas A&M Student Chapter of the Wildlife Disease Association. 10 October.
- 2012 Ocelot conservation in Texas: Applying science to save a species**
Aggies for Protection of Endangered Species, Texas A&M University. 10 September.
- 2012 Snow leopard conservation genetics in Mongolia**
Caesar Kleberg Wildlife Institute, Texas A&M University-Kingsville. 18 September.
- 2012 Exploring genetic factors associated with the white coat color in tigers**
Feline Conservation Federation Convention. Cincinnati, Ohio. 9 June.
- 2012 Snow leopard conservation: Applying genetics to save the species in Mongolia**
Texas A&M Student Chapter of the Wildlife Disease Association. 16 April.
- 2012 Conservation genetics of ocelots and the implications for species recovery in the US**
Rio Brazos Audubon Society. Bryan, Texas. 11 April.
- 2012 Landscape genetics of snow leopards in Mongolia and impacts on Conservation**
Borlaug Institute for International Agriculture, Texas A&M University. 24 February.
- 2011 Population abundance and landscape connectivity of snow leopards and the implications for conservation**
Snow Leopard Exchange Meeting WWF-Mongolia. Ulaanbaatar, Mongolia. 17 October.
- 2011 Application of genomics to the conservation and management of species**
15th Annual Convention of Association for the Promotion of DNA Finger Printing and

- Associated DNA. Focus: Genomics and Biodiversity. Hyderabad, India. 23–25 February.
- 2010 Bhutan's first wildlife genetics lab: How DNA will be extracted from scat and hairs of elephant, snow leopard, takin, and other wildlife species**
Ugyen Wangchuck Institute of Conservation and the Environment. Bumthang, Bhutan. 14 May.
- 2010 Understanding the status and distribution of snow leopards using noninvasive genetics**
Nepal Academy of Science and Technology. Lalitpur, Nepal. 19 March.
- 2010 Applying advances in genetics to wildlife conservation**
Center of Molecular Dynamics-Nepal. Kathmandu, Nepal. 16 March.
- 2010 Resolving the distribution, abundance, and evolution of snow leopards by integrating noninvasive genetic techniques and available genomic resources**
Snow Leopard Functional Genomics Initiative Collaborative Planning Workshop. San Diego, California. 18 January.
- 2009 Mammal diversification and conservation of biodiversity**
Partnership for Education and Rural Health (PEER) Summer Camp, Introduction to Veterinary Medicine. Texas A&M University. 20 July.
- 2008 Population monitoring of snow leopards in Central Asia using non-invasive genetics**
Eco-munch Seminar, Department of Zoology, University of Oklahoma. 23 September.
- 2008 Genetic techniques for snow leopard population monitoring**
International Conference on Range-Wide Conservation Planning for Snow Leopards. Beijing, China. 10 March.
- 2006 Conservation genetics of snow leopard in China**
Institute of Forest Ecology, Environment and Protection, Chinese Academy of Forestry. Beijing, China. 9 August.
- 2005 Genetic variation of wild cats in Texas**
Universidad Nacional Autónoma de México. Mexico City, Mexico. 9 March.
- 2004 Progress of the Feline Research Program in ocelot research**
USFWS Ocelot Recovery Meeting. Harlingen, Texas. 30 November.
- 2004 Population genetics of ocelot**
National Pingtung University, Kaohsiung, Taiwan. 19 August.
- 2004 Population genetics of ocelot: The implications for conservation**
Kasetsart University, Faculty of Forestry. Bangkok, Thailand. 12 August.
- 2004 Genetic techniques critical for conservation**
Kasetsart University, Faculty of Forestry. Bangkok, Thailand. 8 August.

CONFERENCE PRESENTATIONS – PRIMARY PRESENTER (student mentee underlined)

- 2018 Adaptation of snow leopards to high-altitude via regulatory changes in the hypoxia inducible pathway and potential ecological ramifications**
Ecology Society of America Annual Meeting. 6 August 2018. New Orleans, LA.
E Janecka*, C Hacker, B Nelson, P Auron, S Pulugulla, WJ Murphy, B Davis, R Jackson, S Hussain, B Munkhtsog, G Muhammad
- 2016 Genetic differences in the response to landscape fragmentation by a habitat generalist, the Bobcat, and a habitat specialist, the ocelot (Platform)**
The Wildlife Society's 23rd Annual Conference. 16 October. Raleigh, NC
JE Janecka*, M Tewes, I Davis, A Haines, A Caso, R Honeycutt, T Blankenship
J P Leonard, ME Tewes, R W DeYoung, JE Janecka, TA Campbell, A Caso
- 2015 Range-wide snow leopard phylogeography reveals major regional management units with low genetic diversity suggesting historical population fluctuations (Platform)**
The Wildlife Society's 22nd Annual Conference. 20 October. Winnipeg, Alberta
JE Janecka*, Y Zhang, D Li, B Munkhtsog, M Bayaraa, N Galsandorj, TR Wangchuk, D Karmacharya, J Li, L Zhi, KZ Uulu, A Gaur, S Kumar, S Hussain, G Muhammad, M Jevit, C Hacker, P Burger, C Wultsch, MJ Janecka, K Helgen, WJ Murphy, R Jackson

- 2015 Snow leopard phylogeography: Impacts on conservation and management of wild and captive populations** (Platform)
25th Felid Taxon Advisory Group Annual Conference. 15 July Pittsburgh, PA
JE Janecka
- 2011 Population structure of snow leopards in western Mongolia** (Poster)
Texas Genetic Society Annual Meeting. 30 March. Dallas, TX.
JE Janecka*, R Jackson, B Munkhtsog, N Galsandorj, Y Halley, WJ Murphy
- 2009 A family-level supermatrix resolves the phylogeny and timing of intra-ordinal radiations** (Platform)
Society for Molecular Biology and Evolution. 3–7 June. Iowa City, IA
JE Janecka*, R Meredith, M Springer, WJ Murphy
- 2007 Status, distribution, and conservation genetics of the snow leopard in Central Asia** (Platform)
Texas Genetic Society. 13 April. San Antonio, TX
JE Janecka*, R Jackson, D Li, and W Murphy
- 2007 Conservation genetics and ecology of ocelots with recovery implications in Texas** (Platform)
Rob & Bessie Welder Biannual Symposium. 14–16 October. Sinton, TX
JE Janecka*, LI Grassman, TL Blankenship, ME Tewes, AM Haines, A Caso, RL Honeycutt
- 2007 Non-invasive survey of snow leopards in Central Asia** (Poster)
ConGen3: The 3rd Biannual Symposium of Conservation Genetics (American Genetics Society. 27–29 September 2007. New York, New York
JE Janecka*, R Jackson, DQ Li, YQ Zhang, B Munkhtsog, W Murphy
- 2006 Mitochondrial control region variation of ocelot and bobcat in Tamaulipan Biotic Province** (Platform)
The Texas Chapter of the Wildlife Society 41st Annual Meeting. 16–18 February. South Padre, TX
JE Janecka*, LI Grassman, TL Blankenship, ME Tewes, AM Haines, A Caso, RL Honeycutt
- 2006 Genetic structure of mountain lion populations in Texas and implications for management** (Platform)
The Texas Chapter of the Wildlife Society 41st Annual Meeting. 16–18 February South Padre, TX
JE Janecka*, LI Grassman, ME Tewes, J Young, RL Honeycutt
- 2005 Genetic structure of mountain lion (*Puma concolor*) populations in Texas and implications for management** (Platform)
Conservation, Ecology, and Evolutionary Biology Student Research Symposium. 23 April. College Station, TX
JE Janecka*, ME Tewes, LI Grassman, J Garza, J Young, RL Honeycutt
- 2005 Phylogenetics of ocelot from the Tamaulipan Biotic Province and implications for recovery** (Platform)
The Texas Chapter of the Wildlife Society 40th Annual Meeting. 24–25 February. Amarillo, TX
JE Janecka*, CW Walker, RL Honeycutt, LL Laack, A Caso, ME Tewes
- 2005 Phylogenetics of ocelot from the Tamaulipan Biotic Province and implications for recovery** (Platform)
Texas Society of Mammalogists 23rd Annual Meeting. 18–19 February. Junction, TX
JE Janecka*, CW Walker, RL Honeycutt, LL Laack, A Caso, ME Tewes
- 2004 Social structure and male-biased dispersal of bobcats inferred from microsatellites** (Platform)
Rob & Bessie Welder Biannual Symposium and 50 Year Anniversary. 14–16 October. Sinton, TX
JE Janecka*, TL Blankenship, DH Hirth, CW Kilpatrick, LI Grassman, ME Tewes
- 2004 Road ecology of ocelot and bobcat in southern Texas** (Platform)
The Wildlife Society 11th Annual Conference. 18–22 September. Calgary, Alberta

- JE Janecka*, S Webb, LL Laack, ME Tewes
2004 Conservation genetics of ocelot in southern Texas and northern Mexico (Platform)
 Texas Society of Mammalogists 22nd Annual Meeting. 20–22 February. Junction, TX
 JE Janecka*, CW Walker, RL Honeycutt, LL Laack, A Caso, ME Tewes
2004 Dietary overlap between ocelots and bobcats (Platform)
 Southwestern Association of Naturalists 51st Annual Meeting. 15–17 April. San Antonio, TX
 JE Janecka*, ME Tewes, LL Laack, J Young, S Hayeslett
2004 Road ecology of ocelot and bobcat in southern Texas (Platform)
 Texas Society of Mammalogists 22nd Annual Meeting. 20–22 February. Junction, TX
 JE Janecka*, S Webb, LL Laack, ME Tewes
2003 Conservation genetics of ocelot in south Texas and implications for ocelot recovery (Platform)
 Southwestern Carnivore Conference. Brownsville, TX
 JE Janecka*, CW Walker, RL Honeycutt, LL Laack, A Caso, ME Tewes
2003 Kinship and social structure of bobcats inferred from microsatellites and radio-telemetry data (Platform)
 The Wildlife Society's 10th Annual Conference. 6–10 September. Burlington, VT
 JE Janecka*, T Blankenship, DH Hirth, CW Kilpatrick
2003 Reduced genetic variation among ocelot populations in Texas (Platform)
 The 4th European Congress of Mammalogy. August 1–27 July 27. Brno, Czech Republic
 JE Janecka*, CW Walker, RL Honeycutt, LL Laack, A Caso, ME Tewes
2003 Reduced genetic variation among ocelot populations in Texas (Platform)
 The 83rd Annual Meeting of the American Society of Mammalogists. 21–25 June. Lubbock, TX
 JE Janecka*, CW Walker, RL Honeycutt, LL Laack, A Caso, ME Tewes
2003 Ocelot and bobcat spatial patterns relative to roads in southern Texas (Platform)
 The 83rd Annual Meeting of the American Society of Mammalogists. 21–25 June. Lubbock, TX
 JE Janecka*, S Webb, LL Laack, ME Tewes
2003 Wild cat research in Thailand: past, present, and future directions (Platform)
 Felid Taxon Advisory Group Mid-Year Meeting. 2–6 April Dallas, TX
 JE Janecka*, LI Grassman, ME Tewes
2003 Male-biased dispersal in bobcats *Lynx rufus* (Platform)
 The Texas Chapter of the Wildlife Society 38th Annual Meeting. 13–15 February. Waco, TX
 JE Janecka*, TL Blankenship, DH Hirth, CW Kilpatrick
2001 Conservation genetics of bobcats, *Lynx rufus*, in south Texas (Platform)
 School of Natural Resources Annual Symposium. Fall Semester, Burlington, VT
 JE Janecka*, TL Blankenship, DH Hirth, CW Kilpatrick
1997 Characterization of urban coal-tar disposal site isolate *Sinorhizobium* sp. 9702M4 (Platform)
 Howard Hughes Scholar Symposium, Cornell University. Summer. Ithaca, NY
 JE Janecka*, WC Ghiorse

CONFERENCE PRESENTATIONS – COAUTHOR (*presenter, student mentee underlined)

- 2019 Using Loop-Mediated Isothermal Amplification (LAMP) to Identify At-Risk Species in the Field** (Poster) BEST POSTER AWARD
 11th Annual Undergraduate Research & Scholarship Symposium. 3 April 2019. Pittsburgh, PA

- Driscoll B, Walker NP, Janecka JE
- 2019 Developing a Microsatellite Multiplex to Individually Identify African White-Bellied Pangolins** (Poster)
11th Annual Undergraduate Research & Scholarship Symposium. 3 April 2019.
Pittsburgh, PA
Bullard A, Ludvico L, Janecka JE
- 2019 *Panthera uncia* (snow leopard) dependence on livestock in northern Pakistan and its implications with human-wildlife conflict mitigation** (Platform)
95th Annual Meeting of Pennsylvania Academy of Sciences. 30 March 2019.
Allentown, PA
Hacker C, Hussain S, Janecka JE
- 2019 Genetic Variability of White-Tailed Deer (*Odocoileus virginianus*) in Southwestern Pennsylvania and Applications for Forensics** (Poster)
95th Annual Meeting of Pennsylvania Academy of Sciences. 30 March 2019.
Allentown, PA
Quain M, Ludvico L, Janecka JE
- 2019 Population comparison of snow leopards in China using a noninvasive genetics approach** (Poster) BEST POSTER AWARD
6th Annual Graduate Research Symposium. 15 March 2019. Pittsburgh, PA
Hacker C, Zhang, Y-G Zhang, Janecka JE
- 2019 Genetic Variability of White-Tailed Deer (*Odocoileus virginianus*) in Southwestern Pennsylvania and Applications for Forensics** (Poster)
6th Annual Graduate Research Symposium. 15 March 2019. Pittsburgh, PA
Quain M, Ludvico L, Janecka JE
- 2019 The Comparison of MtDNA Control Region Haplotypes between Individuals of Known Maternal Lineage and Ancient Skeletal Remains from the Flevaeis Plot Archaeological Site in Rhodes** (Poster)
6th Annual Graduate Research Symposium. 15 March 2019. Pittsburgh, PA
Lohr M, Reeder P, Burrows A, Janecka JE, Ludvico L
- 2019 Using Loop-Mediated Isothermal Amplification (LAMP) to Identify At-Risk Species in the Field** (Poster)
Pennsylvania Forensic Science Student Research Exchange. 29 March 2019.
Pittsburgh, PA
Driscoll B, Walker NP, Janecka JE
- 2019 Developing a Microsatellite Multiplex to Individually Identify African White-Bellied Pangolins** (Poster)
Pennsylvania Forensic Science Student Research Exchange. 29 March 2019.
Pittsburgh, PA
Bullard A, Ludvico L, Janecka JE
- 2018 Assessing the Negative Impacts of White-Tailed Deer (*Odocoileus virginianus*) Poaching in the United States** (Poster)
The Wildlife Society 25th Annual Conference. October 2018.
Quain M, Janecka JE
- 2018 Regional comparison of snow leopard dependence on livestock using molecular diet analysis** (Platform)
The Wildlife Society 25th Annual Conference. October 2018.
Hacker C, Jevit M, Hussain S, Zhang, Y-G Zhang, Janecka JE
- 2018 Exploring the Genomics of a Generalist: Uncovering the Local Adaptations That Allow Bobcats to Thrive in Diverse Ecoregions** (Platform)

- The Wildlife Society 25th Annual Conference. October 2018.
Broderick J, Sprauer S, Newbury R, and Janecka JE
- 2018 Uncovering the Local Adaptations That Allow Bobcats to Thrive in Diverse Ecoregions** (Platform)
 2nd Annual Three Rivers Evolution Event. 22 September 2018
Broderick J, Sprauer S, Newbury R, and Janecka JE
- 2018 The effects of unidirectional stream flow and host dispersal on parasite population structure within a dendritic ecological network** (Platform)
 Ecology Society of America Annual Meeting. 7 August 2018. New Orleans, LA.
 Janecka* MJ, Janecka JE Criscione C
- 2018 Developing a model to study the functional impacts of putative high-altitude snow leopard adaptations in the hypoxia response pathway** (Poster)
 20th Annual Summer Research Duquesne Symposium. 28 July 2018. Pittsburgh, PA.
B Nelson*, A. Winston, S Pulugulla, D Galson, P Auron, B Davis, JE Janecka
- 2018 Combining molecular and morphological characters to reconstruct phylogenies and understand diversification of placental mammals in the Paleocene** (Poster)
20th Annual Summer Research Duquesne Symposium. 28 July 2018. Pittsburgh, PA.
Frontera M*, JR Wible, T Wilson, S Brusatte, M Spaulding, S Shelley, JE Janecka
- 2018 Designing a SNP panel for comparative genomics the snow leopard subspecies to examine high-altitude adaptations** (Poster)
20th Annual Summer Research Duquesne Symposium. 28 July 2018. Pittsburgh, PA.
M Rigling, D Naumov, C Hacker, J Broderick, JE Janecka
- 2018 Comparing Population Abundance and Landscape Connectivity of Snow Leopards on the Tibetan Plateau, Tian Shan, and Altai** (Platform)
 74th Northeast Fish & Wildlife Conference. 17 April 2018. Burlington, VT.
Hacker* C, Liu YL, Li DQ, Zhang YG, Ames C, Walker N, Jackson R, Munkhtsog B, Bayaraa M, Liang XC, Bian XX, Farrington JD, Alamanov A, Balbakova F, Janecka JE
- 2018 Population Connectivity and Effective Population Size of the Concho Watersnake, *Nerodia paucimaculata*, a Recently De-listed Texas Endemic, within an Impounded River System** (Platform)
 74th Northeast Fish & Wildlife Conference. 17 April 2018. Burlington, VT.
 Janecka* MJ, Criscione C, Janecka JE
- 2018 Local Adaptation in a Generalist Species: Examining Genomic Diversity in Bobcats** (Platform)
 74th Northeast Fish & Wildlife Conference. 17 April 2018. Burlington, VT.
Broderick* J, S Sprauer, R Newbury, W Horne, JE Janecka
- 2018 Local Adaptation in a Generalist Species: Examining Genomic Diversity in Bobcats** (Platform)
 Annual Conference and Workshop of the Pennsylvania Chapter of the Wildlife Society. 24 March 2018. State College PA
Broderick* J, S Sprauer, R Newbury, W Horne, JE Janecka
- 2018 Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) Kit: A Revolutionary Method for Species Identification of Unknown Samples** (Platform)
 70th Annual Scientific Meeting of the American Academy of Forensic Scientists. 20 February 2018. Seattle, WA.
Walker* NP, MJ Jevit, CL Ames, JE Janecka, LR Ludvico, MJ Janecka
- 2018 The RoarPlex – A Novel Tetranucleotide Microsatellite and Sex Identification Panel** (Platform)

- 70th Annual Scientific Meeting of the American Academy of Forensic Scientists. 20 February 2018. Seattle, WA.
Ames* CL, JE Janecka, NP Walker, LR Ludvico
- 2018 Determining Copy Numbers of Key Fertility Genes in the Equine Y Chromosome** (Poster)
 Plant & Animal Genome Conference XXVI. 13 January 2018. San Diego, CA.
 Castaneda* C, A Hillhouse, J Janecka, R Juras, T. Raudsepp
- 2018 Reference Sequence of the Horse Y chromosome** (Poster)
 36th Annual International Society for Animal Genetics Conference. 17-18 July 2017. Dublin, Ireland.
 Raudsepp* TR, J Janecka, B Davis, S Ghosh, N Paria, PJ Das, M Nielsen, LAA Orlando, M Schubert, TAE Stout, BP Chowdhary
- 2017 Expression of a gene regulated by the Hypoxia Inducible Factor in snow leopards indicative of high altitude adaptation** (Poster)
 20th Annual Summer Research Symposium, 28 July. Pittsburgh, PA
B Nelson*, A. Winston, S Pulugulla, D Galson, P Auron, B Davis, JE Janecka
- 2017 Influence of short term dietary starch inclusion on the equine cecal microbiome** (Platform)
 America Society of Animal Science and the Canadian Society of Animal Science Annual Meeting and Trade Show, 9 July, Baltimore, MD
CM Warzecha*, JC McCann, J Coverdale, JE Janecka JE, WE Pinchak, TA Wickersham, JL Leatherwood
- 2017 The RoarPlex – A novel tetranucleotide microsatellite and sex-ID panel for accurate individual identification of felids and sharing of genetic data across institutions** (Platform)
 The 2017 Mid-Atlantic Association of Forensic Scientists Annual Meeting. 15 May 2017. Pittsburgh, PA
C Ames*, N. Walker, L. Ludvico, JE Janecka
- 2017 Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit: A revolutionary method for species identification of unknown samples** (Platform)
 The 2017 Mid-Atlantic Association of Forensic Scientists Annual Meeting. 15 May 2017. Pittsburgh, PA
N Walker*, M. Jevit, M. Janecka, JE Janecka
- 2017 The RoarPlex – A novel tetranucleotide microsatellite and sex-ID panel for accurate individual identification of felids and sharing of genetic data across institutions** (Poster)
 The 4th Annual Phi Lambda Upsilon Graduate Student Research Symposium. 11 May 2017. Pittsburgh, PA
C Ames*, N. Walker, L. Ludvico, JE Janecka
- 2017 Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit: A revolutionary method for species identification of unknown samples** (Poster)
 The 4th Annual Phi Lambda Upsilon Graduate Student Research Symposium. 11 May 2017. Pittsburgh, PA
N Walker*, M. Jevit, M. Janecka, JE Janecka
- 2017 Microflora of the equine gut and its ramifications on the development of laminitis; A comparison of fecal and cecal diversity and Illumina and Roche 454 sequences** (Platform)
 44th Annual Meeting of Texas Genetics Society. 27 April. College Station, TX.
M. Jevit*, J. Coverdale, C. Warzecha, J.E., Janecka
- 2017 The RoarPlex – A novel tetranucleotide microsatellite and sex-ID panel for accurate individual identification of felids and sharing of genetic data across institutions** (Poster)

- The 31st Annual National Conference on Undergraduate Research. 6-8 April.
Memphis, TN
C Ames*, N. Walker, L. Ludvico, JE Janecka
- 2017 Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit: A revolutionary method for species identification of unknown samples** (Poster)
9th Annual Undergraduate Research and Scholarship Symposium. 5 April. Duquesne University, Pittsburgh, PA
N Walker*, M. Jevit, M. Janecka, JE Janecka,
- 2017 The RoarPlex – A novel tetranucleotide microsatellite and sex-ID panel for accurate individual identification of felids and sharing of genetic data across institutions** (Poster)
The 40th Annual Pennsylvania Chapter of the Wildlife Society. 1 April. Lake Rayburn, PA
C Ames*, N. Walker, L. Ludvico, JE Janecka
- 2017 Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit: A revolutionary method for species identification of unknown samples** (Poster).
The 40th Annual Pennsylvania Chapter of the Wildlife Society. 1 April. Lake Rayburn, PA
N Walker*, M. Jevit, M. Janecka, JE Janecka
- 2017 Massive expansion of testis-specific transcripts in equid sex chromosomes** (Poster)
The Plant and Animal Genome XXVI Conference. 15 January. San Diego, CA
T Raudsepp, M Nielsen, S Gosh, B Chowdhary, J Janecka
- 2016 Using Genomics and Geometric Morphometrics to Explore the Adaptations of Bobcats to Diverse Ecosystems.** (Poster)
The Wildlife Society's 23rd Annual Conference. 16 October. Raleigh, NC
J Broderick*, S Sprauer, B Davis, JE Janecka
- 2016 A comprehensive gene catalogue of the Horse Male Specific Region of Y (MSY)** (Platform – Raudsepp presented because of birth of Janecka's daughter on 7/15)
35th Annual International Society for Animal Genetics Conference. 24 July. Salt Lake City, UT
J Janecka, L Orlando, M. Schubert, S Ghosh, TA Stout, BP Chowdhary, T Raudsepp*
- 2016 Using genomics to study the diversity of red foxes in Central Asia** (Poster)
19th Annual Summer Research Symposium. 29 July. Pittsburgh, PA
M Bizzarro*, J Janecka.
- 2016 STR forensic typing and development of a tetranucleotide multiplex assay for snow leopards** (Poster)
19th Annual Summer Research Symposium. 29 July. Pittsburgh, PA
C Ames*, N Walker, M Bizzarro, M Jevit, J Janecka
- 2016 Exploring the adaptations of bobcats to diverse ecosystems by identifying genomic regions under selection** (Poster)
The 8th Annual Undergraduate Research and Scholarship Symposium. 6 April. Pittsburgh, PA
S Sprauer*, J Broderick, I Davis, RK Newbury, W Horne, JE Janecka
- 2016 Next generation sequencing used to assess diversity within major histocompatibility complex of ocelots** (Platform)
52nd Annual Meeting of the Texas Chapter of The Wildlife Society, 18–20 February. San Antonio, TX
J P Leonard*, ME Tewes, R W DeYoung, JE Janecka, T A Campbell, A Caso
- 2016 Diversity of major histocompatibility complex alleles within Texas ocelot populations** (Platform)
Texas Society of Mammalogists 34th Annual Meeting, 12–14 February. Junction, TX
J P Leonard, ME Tewes, R W DeYoung, JE Janecka, T A Campbell, A Caso
- 2015 A characterization of equine microflora in response to a high carbohydrate diet:**

- Comparing fecal and cecal samples** (Poster)
3rd Annual Graduate Research Student Symposium. 6 November. Pittsburgh, PA
M. Jevit*, J Coverdale, C Warzecha, J.E., Janecka
- 2015 The Implementation of next generation sequencing in dietary analysis of snow leopards (*Panthera uncia*) and a comparison to traditional morphological methods** (Platform)
The Wildlife Society's 22nd Annual Conference. 20 October. Winnipeg, Alberta.
M. Jevit*, S Hussain, G Muhammad, JE Janecka
- 2015 Exploring the adaptations of bobcats to diverse ecosystems by identifying genomic regions under selection** (Poster)
The Wildlife Society's 22nd Annual Conference. 20 October. Winnipeg, Alberta.
S Sprauer*, J Broderick, JE Janecka
- 2015 Using genomics to explore diversity and adaptation among tiger subspecies.** (Poster)
The Wildlife Society's 22nd Annual Conference. 20 October. Winnipeg, Alberta.
J Broderick, Sarah Sprauer*, JE Janecka
- 2015 Exploring the adaptations of bobcats to diverse ecosystems by identifying genomic regions under selection** (Platform)
18th Annual Summer Undergraduate Research Symposium. 31 July. Pittsburgh, PA
S Sprauer*, J Broderick, JE Janecka
- 2015 Analysis of temporal variation in prey use and livestock depredation of snow leopards (*Panthera uncia*) in Pakistan.** (Platform)
25th Felid Taxon Advisory Group Annual Conference. 15 July. Pittsburgh, PA
M. Jevit*, S. Hussain, G. Muhammad, JE Janecka.
- 2015 Exploring the adaptations of bobcats to diverse ecosystems by identifying genomic regions under selection** (Platform)
25th Felid Taxon Advisory Group Annual Conference. 15 July. Pittsburgh, PA
S Sprauer*, J Broderick, JE Janecka
- 2015 Using genomics to explore adaptation among tiger subspecies.** (Platform)
25th Felid Taxon Advisory Group Annual Conference. 15 July. Pittsburgh, PA
J Broderick, Sarah Sprauer*, JE Janecka
- 2015 Exploring the adaptations of bobcats to diverse ecosystems by identifying genomic regions under selection** (Poster)
7th Annual Undergraduate Research Symposium. April 9. Pittsburgh, PA
S Sprauer*, J Broderick, JE Janecka
- 2015 Analyzing Equine Hindgut Microbial Communities in Relation to Laminitis**
7th Annual Undergraduate Research Symposium. April 9. Pittsburgh, PA
K Martinez*, JE Janecka
- 2015 Powdermill Nature Reserve Camera-Trapping Survey** (Poster)
Pennsylvania Chapter of the Wildlife Society. March 21. State College PA
M. Jevit*, JE Janecka
- 2014 A whole genome integrated map of the alpaca** (Poster)
Plant & Animal Genome XXII. 11–16 January. San Diego, CA
F Avila*, PJ Das, MP Baily, P Perelman, JE Janecka, R Chowdhary, E Owens, M Kutzler, A Merriwether, WE Johnson, T Raudsepp
- 2013 Sequencing and de novo assembly of the male specific region of the equine Y chromosome** (Platform)
10th Dorothy Russel Havemeyer Foundation International Equine Genome Mapping Workshop. 12 July. Furnas, Portugal
JE Janecka, T Raudsepp, B Chowdhary*
- 2103 Noninvasive genetics versus camera trapping: estimating population density of an elusive carnivore *Leopardus pardalis*** (Platform)
American Society of Mammalogists Annual Meeting. 14–18 June, Philadelphia, PA
TW Rodgers*, RL Schooley, J Giacalone, JE Janecka, EJ Heske
- 2013 Influence of dietary grain supplementation on cecal microbial populations in horses** (Platform)

- Equine Science Society Symposium. 28 May. San Antonio, TX
CM Warzecha*, JA Coverdale, JE Janecka, WE Pinchak, TA Wickersham
- 2013 Discovery of a sub-population of ocelots in Texas: Genetic rescue for an endangered species?** (Platform)
 Texas Chapter of the Wildlife Society, 21–23 February, Houston, TX
JM Korn*, JE Janecka, RW De Young, A Caso, J Mays, A Ortega-Sanchez, DJ Kunz, L Laack, ME Tewes
- 2013 The composition and distribution of native and non-native red fox in central Colorado** (Platform)
 Texas Chapter of the Wildlife Society, 21–23 February, Houston, TX
C Merson*, BN Sacks, MJ Statham, RP Lopez, JE Janecka
- 2013 Global phylogeography of the most widely distributed carnivore, the Red Fox (*Vulpes vulpes*)** (Platform)
 The Wildlife Society-Western Section Annual Meeting. 31 January. Sacramento, CA
 M Statham*, J Murdoch, JE Janecka, C Edwards, B Sacks
- 2012 Investigation of the genes associated with the white coat color in tigers** (Platform)
 Texas Genetics Society Annual Meeting. 24 March. San Antonio, TX
E Larkin*, JE Janecka
- 2012 Characterization of equine gastrointestinal microflora in healthy horses and those with chronic laminitis.** (Poster)
 Keystone Symposium on the Microbiome. 4 March. Keystone, CO
 SM Steelman*, JE Janecka, JS Suchodolski, S Dowd, BP Chowdhary
- 2011 Population density estimates of snow leopards in western Mongolia using noninvasive genetics** (Platform)
 Texas Genetics Society Annual Meeting. 9 April. Dallas, TX
Y Halley*, B Munkhtsog, R Jackson, JE Janecka
- 2011 Next generation DNA sequencing to characterize equine gastrointestinal microflora in healthy horses and those with acute laminitis of gastrointestinal origin** (Poster)
 Havemeyer Foundation Genome Workshop. July. Minneapolis, MN
 SM Steelman*, JE Janecka, BP Chowdhary
- 2011 Characterization of laminar, gastrointestinal, and immune system dysregulation in chronic equine laminitis** (Poster)
 International Laminitis Conference. 28–31 October. West Palm Beach, FL
 SM Steelman*, JE Janecka, BP Chowdhary
- 2009 Non-invasive camera trapping and genetic techniques for estimating snow leopard population size in Tost Uul, South Gobi, Mongolia** (Platform)
Carnivores 2009 Carnivore Conservation in a Changing World. 15-18 November. Denver, CO
 R Jackson*, B Munkhtsog, JE Janecka, D Mallon

GRADUATE STUDENT COMMITTEES AND MENTORING

Duquesne University

Doctoral Program

Charlotte Hacker (2017–present) PhD Program in Biology, Major Advisor
 Dissertation topic: Snow leopard genomics and adaptation to high altitude.

Al Muatasim Al Zadjali (2016–present) PhD Program in Biology, Major Advisor
 Dissertation topic: Linkage mapping and genomics of Dromedarian camels in Oman.

Jennifer Broderick (2014–present) PhD Program in Biology, Major Advisor
 Dissertation topic: Selective sweeps and adaptation in bobcats.

Brooke Deal (2019–present) PhD Program in Biology, Committee Member
 Dissertation: The Sex Differences between Key Players Responsible for Chronic Pain and the Effectiveness of Celecoxib Nanoemulsion Treatment. Major Advisor: Dr. John Pollock.

Emine (2019–present) PhD Program in Biology, Committee Member

Dissertation: Analysis of KLK3 Protease Activity in Primates and the Coevolution of Seminal Proteins and HIV/SIV. Major Advisor: Dr. Michael Seaman.

Collin Kessler (2018–present) PhD Program in Biology, Committee Member

Dissertation: Genetic characterization of regulatory switches that modulate cyclic di-GMP production through a self-organizing multicellular trait. Major Advisor: Dr. Wook Kim

Michael Wells (2016–present) PhD Program in Biology, Committee Member

Dissertation topic: Selenite respiration in extremophiles. Major Advisor: Dr. John Stolz

Brian Trevelline (2014–2017) PhD Program in Biology, Committee Member

Dissertation: DNA metabarcoding reveals provisioning of pollution-sensitive aquatic insects, resource partitioning, and dietary shifts among breeding Neotropical migratory songbirds in a riparian habitat. Major Advisor: Dr. Brady Porter.

Amanda Zielen (2017) PhD Program in Biology, Committee Member

Dissertation: Primate proteomic composition of seminal plasma and prostate-specific transglutaminase activity in relation to sexual selection. Major Advisor: Dr. Michael Seaman.

Trevor Anderson (2014–2016) PhD Program in Biology, Major Advisor (Trevor left with MS)

Dissertation topic: Snow leopard genomics and adaptation to high altitude.

Jennifer Vill Doyle (2014–2016) PhD Program in Biology, Committee Member (Jen left with MS)

Dissertation: Enzymatic properties of prostatic acid phosphatase (ACPP) and the molecular coevolution of ACPP and Human Immunodeficiency Virus (HIV) in primates. Major Advisor: Dr. Michael Seaman.

MS Program - Thesis

Melanie Quain (2017–2019) MS in Environmental Science and Management, Major Advisor

Thesis: Microflora of the equine gut and its ramifications on the development of laminitis; Comparison of fecal and cecal Diversity and Illumina and Roche 454 sequencers.

Mathew Jevit (2015–2016) MS in Environmental Science and Management, Major Advisor

Thesis: Microflora of the equine gut and its ramifications on the development of laminitis; Comparison of fecal and cecal Diversity and Illumina and Roche 454 sequencers.

Brian Trevelline (2014) MS in Environmental Science and Management, Committee

Dissertation: Effects of pollution on water thrush

MS in Environmental Science and Management. Major Advisor: Dr. Brady Porter.

MS Program – Non-Thesis

Colton Ames (2017–present) MS in Forensics, Research Mentor

Research Paper: The RoarPlex – A Novel Tetranucleotide Microsatellite and Sex-ID Panel for Accurate Individual Identification of Felids and Sharing of Genetic Data across Institutions.

Nickolas Walker (2017–present) MS in Forensics, Research Mentor

Research Paper: Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit: A Revolutionary Method for Species Identification of Unknown Samples.

Kevin Wetherington (2016–present) MS in Environmental Science and Management, Non-Thesis Research Mentor

Research Paper: Genetic based management of captive populations of big cats.

Melanie Quain (2017–present) MS in Environmental Science and Management, Research Mentor

Research Paper: Forensic analysis of white-tailed deer.

Kelsie Drop (2014–2015) MS in Forensics, Research Committee

Research Paper: Analysis of Allele Distribution in *Felis catus*: STR analysis of the Pittsburgh Population.

External Committees while at Duquesne University

Matthew Jevit

2016–present

PhD Committee

Dissertation: Alpaca genomics. PhD Program in Genetics, Texas A&M University. Major Advisor: Terje Raudsepp

Rory Carroll 2015–2019 PhD Committee

Dissertation: Bobcat population genetics. PhD Program in Natural Resources and Earth Sciences, University of New Hampshire. Major Advisor: Marian Litvaitis

John Leonard 2014–2016 PhD Committee

Dissertation: Habitat use, density, and MHC diversity of ocelots in the Willacy population of south Texas. PhD program in Wildlife Science, Texas A&M University-Kingsville. Major Advisor: Dr. Michael Tewes

Imogene Davis 2013–2016 MS Committee

Thesis: Population genetics of bobcats. MS Program in Wildlife Biology, West Texas A&M University. Major Advisor: Dr. Rocky Ward

Carrie Merson 2012–2016 MS Committee

Thesis: Population genetics of native and non-native red fox in Colorado. MS Program in Wildlife Biology, Texas A&M University. Major Advisor: Dr. Roel Lopez

Daisy Johnson 2014 MS Committee

Thesis: Development and characterization of an in vitro tissue culture model for equine laminitis MS program in Biomedical Sciences, Texas A&M University. Major Advisor: Dr. Bhanu Chowdhary

Committee membership prior to Duquesne University

Floyd Barnes 2012–2014 MS Committee

Thesis: Genetic tools for DNA barcoding of huntable African wildlife species. MS program in Biomedical Sciences, Texas A&M University. Major Advisor: James Derr

Christine Warzecha 2013 MS Committee

Thesis: The effect of dietary shifts on the equine gut microflora. MS program in Animal Science, Texas A&M University. Major Advisor: Dr. Josie Coverdale

Jennifer Korn 2013 PhD Committee

Dissertation: Ocelot social structure and conservation genetics. PhD Program in Wildlife Science, Texas A&M University-Kingsville. Major Advisor: Dr. Michael Tewes

Gregory Vo 2012 MS Committee

MS Program in Biomedical Sciences (Non-Thesis), Texas A&M University. Major Advisor: Bhanu Chowdhary

MENTORED UNDERGRADUATE STUDENTS

Duquesne University

Zara “Ellen” Wenzinger (2018-present)

Project: LAMP amplification for field applications

Amelia Bullard (2018-present)

Project: Pangolin conservation genetics

Brooke Driscoll (2018-present)

Project: SNP analysis of snow leopards

McKenna Ringling (2018-present)

Project: SNP analysis of snow leopards

Brionna Nelson (2017–2018)

Project: Gene regulation of the hypoxia inducible pathway and adaptation to high altitude.

Weston White (2016–present)

Project: Camera trapping survey of bobcats.

Margaret Engelman (2016–present)

Project: Camera trapping survey of bobcats and population genetics.

Colton Ames (2016–2017)

Project: Developing Tetra-nucleotide microsatellite panel for snow leopards.

Colton completed BS in forensics and is now a MS Forensics student in the Janecka lab.

Nickolas Walker (2016–2017)

Project: Developing rapid species identification kit that can be deployed in the field.

Nick completed BS in forensics and is now a MS Forensics student in the Janecka lab.

Sarah Sprauer (2014–2016)

Honors Thesis: Exploring the adaptations of bobcats to diverse ecosystems by identifying genomic regions under selection.

Sarah is currently in the MD program in Ohio State University.

Melanie Bizzarro (2015-2016)

Project: Phylogeography of red fox in Central Asia.

Matt Jevit (2014–2015)

Project: Snow leopard diet analysis, bobcat ecology.

Matt went on to complete an MS degree at Duquesne and is now a PhD student at Texas A&M University.

Faba Malik (2015)

Project: Snow leopard noninvasive genetics.

Klancie Martinez (2015)

Project: Equine laminitis.

Texas A&M University

Sara Carney (2012–2013)

Honors Thesis: Genetic factors relating to inbreeding and coat color in white tigers.

Taryn Wright (2012–2013)

Honors Thesis: Comparative genomics of Mongolian purebred horses and hybrids: Conserving an important breeds.

Amy Jackson (2011–2013)

Honors Thesis: The use of serum citrulline levels to predict the onset of equine laminitis.

Amy went on to complete the DVM program at Texas A&M University.

Emilee Larkin (2010–2012)

Honors Thesis: Investigation of genes associated with the white coat color in tigers.

Emily went on to complete the DVM program at Texas A&M University.

Yvette Halley (2011)

Yvette's BIMS485 research was highlighted in the fall 2011 edition of "Explorations! The Texas A&M Undergraduate Journal". Yvette went on to complete a PhD at Texas A&M University and is now a Post Doc at West Virginia University.

Angie Love (2009–2010)

Dustin Dwigins (2008–2010)

Dustin went on to complete an MD program at The University of Texas Medical Branch at Galveston.

Colleen Fisher (2008–2009)

Colleen went on to complete MS and PhD programs at Texas A&M University.

Anisha Jambhekar (2007)

Anisha went on to complete the DVM program at the Texas A&M University.

MENTORED HIGH SCHOOL STUDENTS

Daniele Naumov (2017)

Project: Snow leopard genomics

Amirah Winston (2017)

Project: Gene regulation of the hypoxia inducible pathway and adaptation to high altitude.