

## VITA

### Martha J. Desmond

Department of Fish, Wildlife and Conservation Ecology  
PO Box 30003, MSC 4901  
New Mexico State University  
Las Cruces, NM 88003-0003  
[mdesmond@nmsu.edu](mailto:mdesmond@nmsu.edu)  
(575)646-1217

#### Positions Held

- 2024-Current Interim Department Head, New Mexico State University, Department of Fish, Wildlife and Conservation Ecology.
- 2016 - Present Regents Professor, New Mexico State University, Department of Fish, Wildlife and Conservation Ecology
- 2012 - Present Professor, New Mexico State University, Department of Fish, Wildlife and Conservation Ecology
- 2010 - 2012 Interim Department Head, Department of Fish, Wildlife and Conservation Ecology
- 2004 - 2012 Associate Professor, New Mexico State University, Department of Fish, Wildlife and Conservation Ecology
- 2007 E. (Kika) de la Garza Fellow, USDA, Washington, DC
- 1999 - 2004 Assistant Professor, New Mexico State University, Department of Fish, Wildlife and Conservation Ecology
- 1997- 1999 International Research Fellow, Chihuahua Mexico, National Science Foundation, Texas A&M University, Kingsville, TX and Universidad Autónoma de Chihuahua, Chihuahua, MX

#### Education

- B.A. in Environmental Studies (Biology & English), Wells College, Aurora, NY 1985
- M.S. in Wildlife Ecology, University of Nebraska, Lincoln, NE 1991. "*Ecological aspects of burrowing owl nesting strategies*".
- Ph.D. Forestry with a Wildlife Ecology emphasis. University of Nebraska, Lincoln, NE 1997. Dissertation: "*Evolutionary history of the genus *Speotyto*: a genetic and morphological perspective*"

#### Research Scholarship and Creative Activities

##### **Major Program Funding**

Desmond, MJ and F. Abadi Gebreselassie. 2024. Effects of Energy Development and Forest Management on Birds of Greatest Conservation Need in Southwestern New Mexico. Bureau of Land Management. \$330,000.

Desmond, MJ and F. Abadi Gebreselassie. 2024. The effects of the sunzia transmission line on Bendire Thrasher (*Toxostoma benderei*) occupancy, movement and survival in the Chihuahuan Desert Important Bird Area. Pattern Energy. \$260,000.

Desmond, M.J, Avian Conservation and Management on White Sands Missile Range. Department of Defense. \$1,320,000

Wright, T, M. Desmond, J. Fair, and A. Lawson. Prepping for Disaster Ecology: HSI Based Training for Managing Climate Change Impacts on Migratory Birds. \$275,000

Desmond, M. J., Avian Research and Management on White Sands Missile Range (Effects of Artificial Light on Avian Migration)", US Army/White Sands Missile Range, \$418,000.

Desmond, M. J., Avian Research and Management on White Sands Missile Range (Effects of Artificial Light on Avian Migration)", US Army/White Sands Missile Range, \$113,000.

Romero, A., Boeing, W. J. Ganguli, A..C., ,Holguin, F. O., and Desmond, M. J, Enhancing Hispanic Access to Natural Resource and Agricultural Careers through Education Mentorship and Training ENHANCEMENT, USDA/ANIFA/Hispanic-Serving Institutions Educational Grants Program, \$999,974.00.

Desmond, M. J. F. Gebreselassie, D. Johnson and G. Clark. 2020. Assessment of passive relocation as a mitigation management tool for burrowing owls in Phoenix, AZ. US Fish and Wildlife Service. \$65,000 (2020-2022).

Desmond, M.J. and F. Gebreselassie. Influence of forest management and wildfire on Pinyon Jay populations in the Sacramento Mountains. USDA McIntyre-Stennis. \$70,000.

Serrano, E., Torres, M., Juarez, J. E., Cooper, S. L. Desmond, M. J., Resource Hub: The NSF National Resource Hub for STEM Education at Hispanic-Serving Institutions, National Science Foundation, \$2,633,530.00.

Desmond, M. J. 2017. Assessment of Burrowing Owl Translocation Efforts in Southern Arizona. Arizona Game and Fish Department, Natural Heritage Program. \$39,000 (2017-2019).

Desmond, M.J. D. Johnson and G. Clark. 2016. Assessment of burrowing owl translocations in the southwestern United States. US Fish and Wildlife Service. \$75,000 (2016-2019).

Desmond, M.J., B. Baca, R. Tafoya and D. Hacker. 2015. Southwest Natural Resource Career Track Program: Preparing students for success in natural resource fields. \$2 million dollars. (2015-2019).

Desmond, M.J. and K Cruz-McDonnell. 2015. Burrowing owl population status, nest survival prey base and predator abundance on Kirtland Airforce Base. Department of Defense. \$123,000 (2015-2016)

Desmond, M.J. 2015. Distribution and habitat requirements of Bendire's Thrasher (*Toxostoma bendirei*) throughout its New Mexico range. New Mexico Department of Game and Fish. \$135,000 (2015-2017)

Desmond, M.J. 2013. Impacts of energy development on indicator taxa within the Nutt Grasslands of southcentral New Mexico. New Mexico State Land Office. \$100,000 (2013 - 2015).

Desmond, M.J., J. Zimmerman, B. Baca, and S. VanBloem. 2011. Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities. USDA NIFA, Hispanic Serving Institutions. Program. 3.2 million dollars (2011-2016).

Desmond, M.J., J. Sidle, D. Augustine, C. Campbell, W. Gould, A. Lafon, and G. Roemer. 2008. Source-sink dynamics in grassland bird populations across Great Plains prairie dog colonies: implications for biological diversity and livestock management. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. \$499,980 (2008-2013).

Boeing, W., M.J. Desmond, R. Valdez, et al. 2008. Student experiential learning in the natural resource sciences through summer internships and professional mentoring: a joint project proposal. USDA, CSREES, Higher Education Challenge Grant, \$475,889 (2008-2011).

Desmond, M.J. 2006. Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, Hispanic Serving Intuition's Program. \$350,000 (2006-2008).

Desmond, M.J. 2005. Seed production, grazing management and winter avian community dynamics: Implications for conservation and management of desert grassland systems. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. \$100,000 (2005-2007).

Desmond, M.J. and R. Yosef. 2001. Migrant stopover ecology for birds in arid environments: case studies in North American and Middle Eastern deserts. International Arid Lands Consortium, \$75,000 (2001-2004).

Desmond, M.J. 1997. Grassland bird conservation on winter grounds in the Chihuahuan Desert of Northern Mexico. International Research Fellow, National Science Foundation, \$52,000 (1997-1999).

### **Other Funding**

Desmond, M.J. 2017. Bendire's thrasher (*Toxostoma bendirei*) nest survival and juvenile condition and survival in relation to land management in New Mexico. New Mexico Department of Game and Fish, Share with Wildlife. \$18,616.

Desmond, M.J. 2017. Assessment of burrowing owl translocations in the southwestern United States. Arizona Natural Heritage Program. \$39,000 (2017-2019).

Desmond, M.J. Natural Resources Career Development Program, USDA/Natural Resources Conservation Service, \$33,000.00 (2015-2017).

Desmond, M.J. Breeding Burrowing Owl Surveys and an Experimental Approach to Attracting Owls to Potential Nest Sites in the Chihuahuan Desert Ecoregion, NM Department of Game and Fish, \$11,000.00 (2015).

Ganguli, A. and M.J. Desmond. 2014. Effectiveness Monitoring of Natural Resource Defense Assessment Projects in New Mexico Stream/Riparian Areas and Wetland Ecosystem, Grant County, New Mexico, \$50,000 (2014-2019).

Desmond, M.J. 2011. City of Las Cruces Burrowing Owl Management. City of Las Cruces, \$40,880.00 (2011-2014).

Desmond, M.J. 2008. Bolson Tortoise Foraging Ecology. Turner Endangered Species Fund. \$50,000 (2008-2010).

Smith, G. and M.J. Desmond. 2008. Survey for avian influenza A virus from wild birds in waters of the Rio Grande flyway. Interdisciplinary Research Grant, New Mexico State University \$50,000 (2008).

Desmond, M.J. 2002. The effects of forest thinning practices on the Sacramento Mountains Salamander (*Aneides hardii*). U.S. Forest Service, \$52,000. (2002-2005).

Desmond, M.J. 2004. Influences of habitat fragmentation and shrub encroachment on avian community dynamics in Chihuahuan Desert grasslands. New Mexico Department of Game and Fish, Share with Wildlife \$34,800. (2004-2008).

Desmond, M.J. 2003. Influence of food resources on winter avian abundance, diversity and community dynamics in desert grasslands. National Park Service, DECSU, \$16,000 (2003-2005).

Desmond, M.J. 2003., Influence of seed production and habitat associations on a Chihuahuan Desert avifauna. Travel Award, NMSU ADVANCE \$2,640.

Desmond, M.J. 2001. Release time for manuscript preparation: ecoregional study on wintering grassland birds of the Chihuahuan Desert. NMSU ADVANCE Program, \$17,292.

Desmond, M.J. 2001. Influence of resource manipulations on winter avian abundance, diversity and community dynamics in Chihuahuan Desert grasslands. National Park Service - Mexican Affairs Office, \$32,270. (2001-2004).

Desmond, M.J. 2001. Grassland bird wintering ecology on the gulf coast of south Texas and northern Tamaulipas, Mexico. National Park Service - Mexico Affairs Office, \$30,000. (2001-2004).

Desmond, M.J. 2001. Grassland bird wintering ecology on the gulf coast of south Texas and northern Tamaulipas, Mexico. National Park Service Desert Southwest Cooperative Ecosystems Studies Unit, \$20,000. (2001-2004).

Desmond, M.J. 2001. Travel Award to the 3rd North American Ornithological Conference, New Orleans, LA. NMSU ADVANCE Program, \$1,943. (brought 9 NMSU students)

Desmond, M.J. 2001. Spanish Language Inst. Cuernavaca, Morelos, Mexico. New Mexico State University Mexico Small Grants Program, April 21-May 10 2001. \$700.

Desmond, M.J. 1999. Conservation of grassland birds on wintering grounds in northern Mexico. U.S. Fish and Wildlife Service, \$13,000 (1999-2001).

Desmond, M.J. and F. Chavez-Ramirez. 1998. Grassland bird population monitoring in northern Mexico. Wray Trust, \$3,000.

Desmond, M.J. and F. Chavez-Ramirez. 1998. Conservation of grassland birds in northern Mexico. American Wildlife Conservation Foundation, \$1,500.

Desmond, M.J. and F. Chavez-Ramirez. 1998. Grassland Bird Wintering Ecology in northern Mexico. American Bird Conservancy, \$2,500.

#### Funding with Students

Salas, A.\*, Desmond, M.J. 2018. Bendire's thrasher (*Toxostoma bendirei*) nest survival and juvenile condition and survival in relation to land management in New Mexico. T&E Inc. \$3,000.

Doublet, D.\*, Desmond, M.J., 2017-2018. Assessment of burrowing owl translocations in the southwestern United States. T&E Inc., \$6000

Porro, C.M.\*, Desmond, M.J., 2016-2017. Burrowing Owl Nesting Ecology and Survival in the Face of a Changing Climate, T & E, Inc., \$6,000

Bear Sutton, C.T.\*, Desmond, M.J., 2015-2016. Distribution, Abundance, and Breeding Habitat Requirements of Bendire's Thrasher (*Toxostoma bendirei*) in the Southwest, T & E, Inc., \$6,000

Meliopolous, D.\* and M.J. Desmond. 2013-2014. Impacts of solar energy development on breeding birds of the Nutt Grasslands, NM. T&E, Inc. \$5,000.

Ruehmann, M.\* and M.J. Desmond. 2009. The effects of an exotic grass understory, *Bromus inermis* Leys., on Brewer's sparrow reproduction in the sagebrush steppe of Wyoming. T&E Inc., \$2,500.

Palomo-Ramos, R.\* and M.J. Desmond. 2009-2010. Foraging ecology, nutritional requirements and home range movements of a semi-wild population of Bolson tortoises (*Gopherus flavomarginatus*) in the northern Chihuahuan Desert. T& E, Inc. \$5,000.

Joos, C.\* and M.J. Desmond. 2005-2006. Are shrub encroached grasslands sub-optimal habitat for wintering sage sparrows? T&E, Inc. \$5,000.

McNicoll, J.M.\* and M.J. Desmond. 2005. T&E, Inc., Burrowing owl (*Athene cunicularia*) nest site selection in relation to prairie dog colony characteristics and surrounding land-use practices in Janos, Chihuahua Mexico. \$5,000.

Haan, S.\* and M.J. Desmond. 2004. T & E, Inc., The effects of forest thinning practices on the Sacramento Mountains Salamander (*Aneides hardii*). \$2,500.

Mendez-Gonzalez, C.\* and M.J. Desmond. 2004. T&E, Inc., Influence of resource manipulations on winter avian abundance, diversity and community dynamics in Chihuahuan Desert grasslands. \$7,500. (2004-2007).

Ginter, D.\* and M.J. Desmond. 2002. T&E, Inc., Grassland bird wintering ecology on the gulf coast of south Texas and northern Tamaulipas, Mexico. \$2,500.

Berardelli, D.\* and M.J. Desmond. 2000. T&E, Inc., Burrowing owl (*Athene cunicularia*) nesting strategies and reproductive success in urban versus native habitats and among burrow types in southern New Mexico. \$2,500.

Niemela, S.\* and M.J. Desmond. 2000. T&E, Inc., Grassland bird conservation on wintering grounds in the Chihuahuan Desert: influences of habitat quality and seed availability. \$2,500.

### **Research Products and Creative Achievements**

\* URM graduate student, \*\* graduate student, \*\*\* Undergraduate student

#### **Book Chapters**

Desmond, M.J. 2010. The Burrowing Owl (*Athene cunicularia*). In Raptors of New Mexico, J-L. D. Catron Ed. University of New Mexico Press, Albuquerque.

Desmond, M.J., K. Young, B. Thompson, R. Valdez and A. Lafon Terrazas. 2005. Habitat associations and conservation of grassland birds in the Chihuahuan Desert Region: two case studies in Chihuahua Mexico. Chapter 22 in J.-L. E. Carton, G. Ceballos and R. S. Felger, eds. Biodiversity, Ecosystems and Conservation in Northern Mexico. Oxford University Press, New York.

## Refereed Journal Articles

### In Review

Young, A.C., D. Meliopoulos\*\*, F.A. Gebreselassie, and M.J. Desmond. *In Review*. Impacts of solar energy development on breeding birds in desert grasslands in South-central New Mexico. *Renewable Energy*.

### Published

Salas, A\*., Abadi, F., Desmond, M. J. (2023). Post-fledging survival, movement patterns, and habitat associations of Bendire's Thrashers (*Toxostoma bendirei*) in the Chihuahuan Desert. *Avian Conservation and Ecology*, 18. <https://doi.org/10.5751/ACE-02477-180202>

Doublet, D\*., Johnson, D. H., Abadi, F., Desmond, M. J. 2023. Nest survival and productivity of translocated and resident burrowing owls in Arizona. *The Journal of Wildlife Management*, 87, e22339. DOI: 10.1002/jwmg.22339.

Doublet, D\*., Gebreselassie, F. A., Desmond, M. J., Johnson, D. H. 2023. Survival and fidelity of translocated and resident burrowing owls in Arizona. 87:e22283. DOI: 10.1002/jwmg.22283

Tarazona-Tubens\*, F. L., Gebreselassie, F. A., Britt, C. R., Desmond, M. J. 2022. Nest box selection by yellow-headed and white-fronted amazons in pine savannas of Belize. *Avian Conservation and Ecology* 17(2):30 <https://doi.org/10.5751/ACE-02234-170230>

Tarazona-Tubens, F. L\*., Britt, C. R., Abadi, F., Muschamp, M., and Desmond, M. J. 2022. Temporal factors and distance to human settlement affect nest survival of the endangered Yellow-headed Parrot in Belize, Central America. *Ornithological Applications*, 124(2), duac010.

Lunblad, C.G., C.J. Conway, K. Cruz-McDonnell, O Cruz-Carretero, D. Doublet\*, M. J. Desmond, K. Ongman, C. Navis, N. Rodriguez-Hernandez\* 2021. Collapse and recovery of a Burrowing Owl population on Kirtland Airforce Base, New Mexico. *Journal of Raptor Research* 55:241-254.

Porro, C\*., M.J. Desmond, F. Gebreselassie, J.A. Savidge, K. Cruz McDonnell, R. Griebel, J. Davis\*\* J., R. Eckstein, N. Hernandez Rodriguez\*. 2020. *Burrowing Owl (Athene cunicularia) nest phenology influenced by drought on nonbreeding grounds*. *AUK: Ornithological Advances* 137:1-17.

Griffin, E.\* , M.J. Desmond and D.Vanleeuwen. 2018. Juvenile Burrowing Owl nighttime space-use in southern New Mexico. *Journal of Raptor Research* 52:158-1166.

Griffin, E.\* , M.J. Desmond and D.Vanleeuwen. 2017. Juvenile burrowing owl movement and survival in a human-altered landscape. *Journal of Wildlife Management* 41:649-658. (M. Desmond photo published on the journal cover).

Britt, C.R. \*\*, R. Garcia Anleu, and M.J. Desmond. 2014. Nest survival of a long-lived psittacid: Scarlet Macaw (*Ara macao cyanoptera*) in the Maya Biosphere Reserve of Guatemala and chiquibul forest of Belize. *Condor: Ornithological Applications* 116:265-276.

Ruehmann, M.B. \*\*, M.J. Desmond, and W. Gould. 2011. The effects of a smooth brome understory on Brewer's Sparrow nest success in the sagebrush steppe of Wyoming. *Condor* 113:419-429

Berardelli, D. \*\*, M.J. Desmond, and L. Murray. 2010. Reproductive Success of Burrowing Owls in urban and grassland habitats in Southern New Mexico. *Wilson Journal of Ornithology* 122 (1) 51-59.

De Vries, M. \*\*, C. Campbell, A. Klimaszewski-Patterson \*\*\* and M.J. Desmond. 2010. Grassland fragmentation effects on Burrowing Owl (*Athene cunicularia*) productivity. *Papers of the Applied Geography Conferences* 33: 314-323.

Augdelo, M.S. \*, M.J. Desmond, and L. Murray. 2008. Influence of desertification on site occupancy by grassland and shrubland birds during the nonbreeding period in the northern Chihuahuan Desert. *Studies in Avian Biology*. 37:84-100.

Desmond, M.J., C. Mendez-Gonzalez \*, and L. Abbott. 2008. Winter diets and seed selection of granivorous birds in southwestern New Mexico. *Studies in Avian Biology*. 37:101-112.

Haan, S.S. \*\*, M.J. Desmond, W. J. Gould, and P. Ward. 2007. Influence of habitat characteristics on detected site occupancy by the New Mexico endemic Sacramento Mountains salamander, *Aneides hardii*. *Journal of Herpetology* 41:1-8.

Ginter, D. \*\*. and M.J. Desmond. 2005. Site fidelity and movement patterns of wintering savannah sparrows on North Padre Island, Texas. *Wilson Bulletin* 117: 63-71.

Haan, S.S. \* and M.J. Desmond. 2005. Effectiveness of 3 capture methods for a terrestrial salamander, *Aneides hardii*. *Herpetological Review* 36:143-145.

Mason, L. \*\*, M.J. Desmond and M.S. Agudelo \*. 2005. Influence of grassland type, nest type and shrub encroachment on predation of artificial nests in Chihuahuan Desert grasslands. *Western North American Naturalist* 65:196-201.

Desmond, M.J. 2004. Habitat associations and co-occurrence of Chihuahuan Desert hares: *Lepus californicus* and *L. callotis* in Chihuahua, Mexico. *American Midland Naturalist*. 151:414-419.

Ginter, D. \*\*, and M.J. Desmond. 2004. Avian mortality during fall migration at communication towers along the Rio Grande corridor in southern New Mexico. *Southwestern Naturalist* 49(3):414-417.



Desmond, M.J. 2004. Effects of grazing practices and fossorial rodents of a winter avian community in Chihuahua, Mexico. *Biological Conservation* 116 (2): 235-242.

Desmond, M.J. and F. Chavez-Ramirez. 2002. The first nesting record of mountain plovers (*Charadius montanus*) in northeast Mexico. *Cotinga* 17:17-19.

Desmond, M.J., T.J. Parsons, T O. Powers and J.A. Savidge. 2001. An initial examination of mitochondrial DNA structure in burrowing owl populations. *Journal of Raptor Research* 35(4):278-281.

Desmond, M.J., J.A. Savidge and K E. Eskridge. 2000. Correlations between burrowing owl and black-tailed prairie dog declines: a 7-year analysis. *Journal of Wildlife Management* 64:1067-1075.

Desmond, M.J. and J.A. Savidge. 1999. The importance of satellite burrows for Burrowing Owl populations in black-tailed prairie dog towns. In P.D. Vickery and J.R. Heckert, eds. *Ecology and conservation of grassland birds of the western hemisphere. Studies in Avian Biology*, Cooper Ornithological Society.

Desmond, M J. and J.A. Savidge. 1996. Factors influencing burrowing owl (*Speotyto cunicularia*) nest densities and numbers in Western Nebraska. *American Midland Naturalist* 136:143-148.

Desmond, M J., J.A. Savidge and T.F. Seibert. 1995. Spatial patterns of burrowing owl (*Speotyto cunicularia*) nests in black-tailed prairie dog (*Cynomys ludovicianus*) towns. *Canadian Journal of Zoology* 73:1375-1379.

#### ***Popular Articles/Published Reports***

Desmond, M. J. and J. Montoya. 2005. Status of Chihuahuan Desert Grasslands. In *Grassland ecosystems, endangered species, and sustainable ranching in the Mexico-United States borderlands*. U.S. Forest Service Technical Publication.

Desmond, M. J., J.A. Savidge and R. Eckstein. 1997. *Prairie Partners*. NebraskaLAND Magazine.

#### **Technical Reports to Agencies**

Desmond, M.J., B. Baca, R. Tafoya and D. Hacker. 2020. Southwest Natural Resource Career Track Program: Preparing students for success in natural resource fields. Final Report. USDA Hispanic Serving Institutions Program.

Desmond, M.J. D. Johnson and G. Clark. 2017. Assessment of burrowing owl translocations in the southwestern United States. US Fish and Wildlife Service.

Desmond, M.J. 2016. Distribution and habitat requirements of Bendire's Thrasher (*Toxostoma bendirei*) throughout its New Mexico range. New Mexico Department of Game and Fish.

Desmond, M.J. and K Cruz-McDonnell. 2015. Burrowing owl population status, nest survival prey base and predator abundance on Kirtland Airforce Base. Department of Defense.

Desmond, M.J. 2015. Impacts of energy development on indicator taxa within the Nutt Grasslands of southcentral New Mexico. New Mexico State Land Office.

Desmond, M.J., J. Zimmerman, and B. Baca. 2015. Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities. Final Report. USDA NIFA, Hispanic Serving Institutions.

Desmond, M.J. 2015. Distribution and habitat requirements of Bendire's Thrasher (*Toxostoma bendirei*) throughout its New Mexico range. New Mexico Department of Game and Fish.

Desmond, M.J. 2014. Impacts of energy development on indicator taxa within the Nutt Grasslands of southcentral New Mexico. New Mexico State Land Office.

Desmond, M.J., J. Zimmerman, and B. Baca. 2014. Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities. USDA NIFA, Hispanic Serving Institutions.

Desmond, M.J., J. Zimmerman, B. Baca, and S. VanBloem. 2013. Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities. USDA NIFA, Hispanic Serving Institutions.

Desmond, M.J., J. Zimmerman, B. Baca, and S. VanBloem. 2012. Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities. USDA NIFA, Hispanic Serving Institutions.

Desmond, M.J., J. Sidle, D. Augustine, C. Campbell, W. Gould, A. Lafon, and G. Roemer. 2011. Source-sink dynamics in grassland bird populations across Great Plains prairie dog colonies: implications for biological diversity and livestock management. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. Annual Report.

Boeing, W., M.J. Desmond, R. Valdez, et al. 2011. Student experiential learning in the natural resource sciences through summer internships and professional mentoring: a joint project proposal. USDA, CSREES, Higher Education Challenge Grant. Final Report.

Desmond, M. J., J. Sidle, D. Augustine, C. Campbell, W. Gould, A. Lafon, and G. Roemer. 2010. Source-sink dynamics in grassland bird populations across Great Plains prairie dog

colonies: implications for biological diversity and livestock management. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. Annual Report.

Palomo-Ramos\*, R. and Desmond, M.J. 2010.. Bolson Tortoise Foraging Ecology. Turner Endangered Species Fund. 2009. Annual Report.

Boeing, W., M.J. Desmond, R. Valdez, et al. 2010. Student experiential learning in the natural resource sciences through summer internships and professional mentoring: a joint project proposal. USDA, CSREES, Higher Education Challenge Grant. Annual Report.

Desmond, M.J., J. Sidle, D. Augustine, C. Campbell, W. Gould, A. Lafon, and G. Roemer. 2009. Source-sink dynamics in grassland bird populations across Great Plains prairie dog colonies: implications for biological diversity and livestock management. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. Annual Report.

Palomo-Ramos\*, R. and Desmond, M.J. 2010.. Bolson Tortoise Foraging Ecology. Turner Endangered Species Fund. 2009. Annual Report.

Boeing, W., M.J. Desmond, R. Valdez, et al. 2009. Student experiential learning in the natural resource sciences through summer internships and professional mentoring – a joint project proposal. USDA, CSREES, Higher Education Challenge Grant. Annual Report.

Desmond, M.J. 2009. Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, Hispanic Serving Intuition's Program. Final Report.

Desmond, M.J. 2008. Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, Hispanic Serving Intuition's Program. Annual Report.

Desmond, M.J. 2008. New Mexico Department of Game and Fish, Share with Wildlife Influences of habitat fragmentation and shrub encroachment on avian community dynamics in Chihuahuan Desert grasslands. Final Report.

Desmond, M.J. 2007. Seed production, grazing management and winter avian community dynamics: Implications for conservation and management of desert grassland systems. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. Final Report.

Desmond, M.J. 2007. New Mexico Department of Game and Fish, Share with Wildlife Influences of habitat fragmentation and shrub encroachment on avian community dynamics in Chihuahuan Desert grasslands. Final Report.

Desmond, M.J. 2007. Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, Hispanic Serving Intuition's Program. Annual Report.

Desmond, M.J. 2006. New Mexico Department of Game and Fish, Share with Wildlife Influences of habitat fragmentation and shrub encroachment on avian community dynamics in Chihuahuan Desert grasslands. Final Report.

Desmond, M.J. 2006. Seed production, grazing management and winter avian community dynamics: Implications for conservation and management of desert grassland systems. USDA, CSREES, National Research Initiative, Managed Ecosystem Program. Annual Report.

Haan, S\*\* . and M.J. Desmond, 2005. U.S. Forest Service, The effects of forest thinning practices on the Sacramento Mountains Salamander (*Anedies hardii*). Final Report.

Desmond, M.J. 2005. National Park Service, DECSU, Influence of food resources on winter avian abundance, diversity and community dynamics in desert grasslands. Final Report.

Desmond, M.J. 2005. New Mexico Department of Game and Fish, Share with Wildlife Influences of habitat fragmentation and shrub encroachment on avian community dynamics in Chihuahuan Desert grasslands. Final Report.

Haan, S\*\* . and M.J. Desmond, 2004. U.S. Forest Service, The effects of forest thinning practices on the Sacramento Mountains Salamander (*Anedies hardii*). Annual Report.

Desmond, M.J. 2004. National Park Service - Mexican Affairs Office, Influence of resource manipulations on winter avian abundance, diversity and community dynamics in Chihuahuan Desert grasslands. Final Report.

Desmond, M. J. 2004. National Park Service - Mexican Affairs Office, Grassland bird wintering ecology on the gulf coast of south Texas and northern Tamaulipas, Mexico. Final Report.

Haan, S\*\* . and M.J. Desmond, 2003. U.S. Forest Service, The effects of forest thinning practices on the Sacramento Mountains Salamander (*Anedies hardii*). Annual Report.

### **Invited Presentations, Panels and Workshops**

D. Valles Rosales, M. Vela, and M. J. Desmond. 2023. NSF HSI STEM Resource Hub National Webinar Series, Resources to Improve Classroom Teaching. Hispanic Association of Colleges and Universities (HACUC), San Diego, CA, USA

D. Valles Rosales and M.J. Desmond. 2023 NSF HSI STEM Resource Hub Granting Writing Workshop. Texas HSIc Annual Meeting. San Antonio TX, USA

Desmond, M.J. 2022. WZ/Safety/Staff Meeting, Carson National Forest. Research that translates into management actions on national forests in New Mexico.

Valles-Rosales, D.J., and M. J. Desmond. 2022. HSI STEM Resource Hub: Lessons learned on grant writing across HSIs. Texas HSI Consortium. Brownsville, TX, USA

Desmond, M.J. 2020. Guest Lecture, Southwest Avian Mortality. Department of Environmental Science and Geology, Wayne State University, Detroit, MI, USA

Desmond, M. J., Cutler, T., 2020. Southwest Avian Mortality Event. Mesilla Valley Audubon Society, Las Cruces, NM, USA

Desmond, M.J., Doublet, D\*, Johnson, D., Gebreselassie, F. A., 2019. US Fish and Wildlife Service, Office of Migratory Birds, Albuquerque NM, USA.

Desmond, M. J., Bear Sutton, C\*\*, Darr, M., VanLeeuwen, D., 2019. Breeding habitat requirements of Bendire's Thrasher (*Toxostoma bendirei*). New Mexico Avian Conservation Partners Statewide Meeting, Sevilleta NWR, Socorro, NM, USA.

Desmond, M. J., 2019. Presentation to USDA NIFA Director Dr. Scott Angle, NMSU, Southwest Natural Resource Career Track Program. Las Cruces, NM, USA.

Desmond, M., 2016. Building Effective Partnerships to Promote Leadership and Workforce Diversity. Latinos in Agriculture, Dallas, TX, USA.

Desmond, M.J. 2015, USDA NIFA Hispanic Serving Institutions PI Meeting, Mentoring Underrepresented Students in Natural Resource Sciences, Panel Member, Washington DC, . USA.

Desmond, M. J., 2015. International experiences in wildlife ecology fosters global connections and conservation. International Wildlife Management Congress, International Wildlife Management Working Group. Saporro, Japan.

Desmond, M.J. 2014. Graduate education preparation, Panel Member, AGRI-Science Conference, USDA Hispanic Serving Institutions National Meeting, Miami, FL, USA. .

Workshop, SACNAS 2014, Pathways: Strengths and Needs for Successfully Recruiting Underrepresented Students into Natural Resource and Environmental Science Careers, Los Angeles, CA. NRCT Team of faculty and students organized by Dr. Cecilia Hernandez, Department of Curriculum & Instruction, NMSU. Las Cruces, NM, USA.

USDA Forest Service, Texas A&M University Workshop, Fort Collins, CO. 2014. Pathways: Strengths and Needs for Successfully Recruiting Underrepresented Students into Natural Resource and Environmental Science Career. This is part of a series of workshops that I am an invited participant with the goal to institute change to the US government PATHWAYs program that places students nationwide on career track positions with the federal government.

USDA Forest Service, Texas A&M University Workshop, 2014. Pathways: Strengths and Needs for Successfully Recruiting Underrepresented Students into Natural Resource and Environmental Science Careers. USDA Forest Service, Albuquerque, NM. This was the first of a series of workshops that I am an invited participant in with the goal of instituting change to the US Federal Government PATHWAYS program.

Desmond, M.J. 2014. Burrowing Owl Nest Survival Across Great Plains Grasslands: Does Habitat Fragmentation Play a Role in Observed Population Declines? Sevilleta LTER, University of New Mexico. Albuquerque, NM, USA. .

Desmond, M.J., 2015, Panel member, applying to graduate school. USDA Hispanic Serving Institutions PI Meeting. Miami, F USA.L,

Desmond, M.J., J.Zimmerman, B. Baca, S. Van Bloem, A. Padilla, R. Tafoya, E. Concepcion, and J. Frey. 2013. New Mexico – Puerto Rico Natural Resource Career Track (NRCT) Program: Successfully preparing students for careers in natural resource fields. USDA NIFA Hispanic Serving Institutions Annual Meeting, Mayquez, Puerto Rico. \*Four faculty/staff and over 20 NRCT students attended this meeting.

Desmond, M.J. 2011. Keynote Speaker. Women in Conservation. New Mexico Audubon Society. Santa Fe, NM. USA. .

Desmond, M.J. 2011. Keynote Speaker, Alliance for Minority Participation Symposium, New Mexico State University, Las Cruces New Mexico, USA.

Desmond, M.J. 2010. Sparrow habitat use and diet influences avian community dynamics, movement patterns, and condition. Biology Seminar, NMSU Department of Biology, Las Cruces, NM, USA.

Desmond, M.J., D. Augustine, J. Sidle, C. Campbell, W. Gould, A. Lafon and G. Roemer. 2010. Source sink dynamics in burrowing owl populations across Great Plains prairie dog colonies: implications for biological diversity and livestock management. The Nature Conservancy, Northern Plains Prairie Dog Conservation, Denver, CO, USA.

Desmond, M.J. 2009. Sustaining wildlife along the border. As part of a panel discussion on Sustainability. International Education Week “Semana Tarahumara” New Mexico State University. Las Cruces, NM, . USA.

Desmond, M.J. 2009. Burrowing Owl ecology, Mexico/USA. U.S. Mexico Border Field coordinating committee meeting. Las Cruces, NM, . USA.

Desmond, M.J. 2009. Burrowing Owl population ecology across Great Plains National Grasslands and northern Mexico. Burrowing Owl Workshop Survey, Monitoring, & Migration Project. Umatilla Chemical Depot (DOD), Boardman, OR, USA. .

Desmond, M.J. 2007. Recruiting and retaining minority students in the natural resource sciences. USDA Natural Resources Conservation Service, Hispanic Working Group Meeting. Minneapolis, MN, USA.

Desmond, M.J. 2007. NMSU and the College of Agriculture and Home Economics. Hispanic Serving Institutions Summer Fellowship Program. Washington DC, USA.

Desmond, M.J. 2006. Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, National Research Initiative, Hispanic Serving Institutions Principal Investigators Meeting, Washington, DC, USA.

Desmond, M.J. 2004. Grassland bird winter ecology and building partnerships with Mexico. U.S. Forest Service, U.S. Forest Service National Grasslands Bird Conference. Socorro, NM, USA..

Desmond, M.J. 2004. International planning: Cross-border bird connections. Charting a course for integrated bird conservation in New Mexico: An "All Bird" Workshop". Rio Rancho, NM, USA. .

Desmond, M.J. 2004. Ecology of birds in arid environments: case studies for North American and Middle Eastern Deserts. Annual Meeting, International Arid Lands Consortium, Las Cruces, NM, USA.

Desmond, M.J. 2000. Evolutionary history of the burrowing owl: a genetic and morphological perspective. Department of Biological Sciences, Fall Seminar Series, New Mexico State University, Las Cruces, NM, USA.

Desmond, M.J. 2000. Partners on the prairie: burrowing owl ecology in prairie dog systems. Mesilla Valley Audubon Society, Las Cruces, NM, USA.

Desmond, M. J., T.J. Parsons, T.O. Powers and J.A. Savidge. 1998. Evolutionary history of the Burrowing Owl: a genetic and morphological perspective. Burrowing Owl Symposium, Raptor Research Foundation, Ogden, UT, USA.

Desmond, M.J. and J.A. Savidge. 1998. Conservation of Burrowing Owl populations in the Great Plains. Burrowing Owl Symposium, Raptor Research Foundation, Ogden, UT, USA..

Savidge, J.A. and M.J. Desmond. 1997. Burrowing owl and prairie dog conservation in the Great Plains. 16th Annual Great Plains Animal Damage Control Workshop, Lincoln, NE, USA.

Desmond, M.J. 1996. Issues involving the management of black-tailed prairie dog ecosystems. Department of Forestry, Fisheries and Wildlife, University of Nebraska, Lincoln, NE, USA.

Desmond, M.J. 1996. Burrowing owl conservation: implications of multiple scales. Biology Departmental Seminar, University of Nebraska-Omaha. Omaha, NE, USA.

Desmond, M.J. 1996. Burrowing owl and prairie dog conservation in the Great Plains. Fall Seminar Series, Center for Grassland Studies, Lincoln NE, USA

Desmond, M.J. 1996. Burrowing owl and prairie dog populations in Nebraska: why we need to implement a conservation strategy now. Lincoln Chapter of the Audubon Society, Lincoln NE, USA.

Desmond, M.J. 1994. An introduction to conservation biology using burrowing owls and prairie dogs as an example. Nebraska Association of Science Teachers-Fremont, NE, USA.

Desmond, M.J. 1993. Burrowing owl ecology in the Great Plains. Burrowing Owl Consortium, San Jose, CA, USA.

Desmond, M.J. 1992. Burrowing owl ecology: nesting strategies, reproductive success and new directions in conservation biology. Ecology and Evolution Seminar, University of Nebraska, Lincoln, NE. USA.

Desmond, M. J. and J.A. Savidge. 1991. Burrowing owl ecology and suggestions for minimizing impacts of prairie dog control. 10th Great Plains Animal Damage Control Workshop, Lincoln, NE, USA.

Desmond, M.J. and J.A. Savidge. 1991. Spatial patterns of burrowing owl nests: the influence of prairie dog town size and territoriality, Inland Bird Banding Association's Annual Meeting, Bellevue, NE, USA.

### **Presentations to Professional Societies and Funding Agencies**

Boland, K\*\*. C. (co-presenter), D. M. Osterhaus\*\* (co-presenter), M. J. Desmond. May 2024. Avian Migration and Artificial Light at Night: Impacts and Solutions. Oral presentation for the Northern Arizona Audubon Society, virtual.

Boland\*\*, K. C. (co-presenter), D. M. Osterhaus\*\* (co-presenter), and M. J. Desmond. February 2024. Artificial Light: impacts to birds and monitoring techniques. Oral presentation at the New Mexico Avian Conservation Partnership Annual Meeting, Sevilleta National Wildlife Refuge, Socorro, NM, USA..

Huycke\*\*\*, T. (presenter, undergraduate student), D. M. Osterhaus\*\*, K. C. Boland\*\*, M. J. Desmond. February 2024. Avian Carcass Persistence and Scavenging in the Chihuahuan



Desert. Oral presentation at the New Mexico State University Research and Creativity Week, Las Cruces, NM, USA.

Huycke<sup>\*\*\*</sup>, T. (presenter, undergraduate student), D. M. Osterhaus<sup>\*\*</sup>, K. C. Boland<sup>\*\*</sup>, M. J. Desmond. February 2024. Avian Carcass Persistence and Scavenging in the Chihuahuan Desert. Oral presentation at the Joint Annual Meeting of the Arizona and New Mexico Chapters of the Wildlife Society and American Fisheries Society, Flagstaff, AZ, USA..

Desmond, M.J., D. Doublet<sup>\*</sup>, S. Perez-Finch<sup>\*</sup>, E. Griffin<sup>\*</sup>, D.H. Johnson, F. Abadi. 2023. Burrowing Owl nest survival and productivity in anthropogenic habitats of the American Southwest. Raptor Research Foundation Meeting, Albuquerque, NM, USA..

Desmond, M.J., J. Ellison, J. Davis<sup>\*\*</sup>, J.A. Savidge, N. Hernandez Rodriguez<sup>\*</sup>, C. Britt, and F. Abadi. 2023. Burrowing owl population trends, nest survival, and productivity across Great Plains grasslands. Raptor Research Foundation Meeting, Albuquerque, NM, USA.

Ellison<sup>\*</sup>, J., Desmond, M. J., Britt, C., Abadi, F., 2023. Burrowing Owl Nest Survival Across a Latitudinal Gradient. AOS/SCO-SOC Joint Conference, London, ON, Canada.

Sicich<sup>\*</sup>, B., M. J. Desmond, and F. Abadi. 2023. Influence of local and landscape factors on foraging site selection of Pinyon Jays in southern New Mexico. New Mexico Ornithological Society, Carlsbad, NM, USA..

Sicich<sup>\*</sup>, B., Desmond, M. J., Gebreselassie, F. A. (2023), A multi-scale analysis of Pinyon Jay (*Gymnorhinus cyanocephalus*) foraging ecology in south-central New Mexico. Chihuahuan Desert Conference, El Paso, TX, USA.

Huckye<sup>\*\*\*</sup>, T., Osterhaus<sup>\*\*</sup>, D., Boland<sup>\*\*</sup>, K., Desmond, M. J. 2023. Avian Carcass Persistence and Scavenging in the Chihuahuan Desert. Chihuahuan Desert Conference, El Paso, TX, USA.

Osterhaus<sup>\*\*</sup>, D., Wright, T. F., Desmond, M. J. 2023. Avian Migration and Small-scale Artificial Light at Night in the Chihuahuan Desert."Chihuahuan Desert Conference, El Paso, TX, USA.

Sicich<sup>\*</sup>, B., Desmond, M. J., Abadi, F. 2023. Multi-scale influence of arthropod and habitat characteristics on foraging site selection of pinyon jays in south-central New Mexico. Corona Field Day, NMSU, Corona, NM, USA..

Jimenez<sup>\*\*\*</sup>, D., Varela<sup>\*\*\*</sup>, E., Tipton<sup>\*\*</sup>, D., Quiro<sup>\*\*\*z</sup>, F., Desmond, M. J. 2023. Mesilla Valley American Kestrel Project. ACES Open House, Las Cruces, NM, USA..

Ellison\*, J., Desmond, M. J., Britt, C., Gebreselassie, F. A., 2023. Effects of Prairie Dog Colony Characteristics on Burrowing Owl Nest Survival Using Bayesian Hierarchical Models. ENHANCEMENT, NMSU, Las Cruces, NM, USA..

Perez-Finch\*, S., Desmond, M. J., Johnson, D., and Abadi, F. 2023. Effects of relocation on the survival of Burrowing Owls (*Athene cunicularia*) in Phoenix, AZ. ENHANCEMENT, NMSU, Las Cruces, NM, USA..

Perez-Finch\*, S., Desmond, M. J., Johnson, D., Gebreselassie, F. A. 2023. Influences of Passive Relocation and Land-Use Change on Burrowing Owl (*Athene cunicularia*) Populations in South Central Arizona." New Mexico Ornithological Conference, Carlsbad, NM, USA..

Osterhaus\*\*, D., Wright, T. F., Desmond, M. J. 2023. Avian migration and small-scale artificial light at night: Ryan Beaulieu research grant update. New Mexico Ornithological Society, Carlsbad, NM, USA..

Boland\*, K., Lawson, A., Desmond, M. J. 2023. Comparing Detection Methods to Quantify Mass Avian Mortality On The White Sands Missile Range. New Mexico Ornithological Society, Carlsbad, NM, USA.

Osterhaus\*\*, D., Wright, T. F. Desmond, M. J. 2023. Avian migration and small-scale artificial light at night. NMSU Biology Department Biosymposium. Las Cruces, NM, USA.

Osterhaus\*\*, D., Wright, T. F., Desmond, M. J. 2023. Small Lights, Big Impact? Small-scale Artificial Light's Influence on Bird Migration. New Mexico State University Research and Creativity Week, NMSU, Las Cruces, NM, USA.

Perez-Finch\*, S., Desmond, M. Johnson, D., Abadi, F.2023. Impacts of passive relocation and land-use change on Burrowing Owls (*Athene cunicularia*) in South-Central AZ. Burrowing Owl Symposium, Western Section of the Wildlife Society, Riverside CA, USA..

Desmond, M. J., D. Doublet\*, D.H. Johnson, and F. Abadi. 2023. Survival, fidelity and nest survival of translocated and resident burrowing owls in Arizona. Burrowing Owl Symposium, Western Section of the Wildlife Society, Riverside CA, USA..

Ellison\*, J., Desmond, M. J., Britt, C., Abadi, F., 2023. Estimating the effects of nest age and prairie dog colony characteristics on Burrowing Owl nest survival using bayesian hierarchical models. New Mexico. New Mexico/Arizona Joint Annual Meeting of the Wildlife Society, Farmington, NM, USA.

Sicich\*, B., Desmond, M. J., Abadi, F. 2023. Influence of local and landscape factors on foraging site selection of Pinyon Jays in southern New Mexico. New Mexico/Arizona Joint Annual Meeting of the Wildlife Society, Farmington, NM, USA.

Ellison\*, J., Desmond, M. J., Britt, C., Abadi, F. 2023. Estimating the Effects of Nest Age and Prairie Dog Colony Characteristics on Burrowing Owl Nest Survival Using Bayesian Hierarchical Models. NMSU Research and Creativity Week, Las Cruces, NM, USA.

Osterhaus\*\*, D., Wright, T. F., Desmond, M. J. 2023. Avian Migrant Use of Riparian Corridors in Arid Lands. Research and Creativity Week, NMSU. Las Cruces, NM, USA.

Boland\*\*, K., Lawson, A., Desmond, M. J., 2023. Quantifying Avian Mortality on the White Sands Missile Range. Research Creativity Week, NMSU. Las Cruces, NM, USA.

Perez-Finch\*, S., Desmond, M. J., Johnson, D., Abadi, F. 2023. Influences of passive relocation and land-use change on burrowing owl (*Athene cunicularia*) populations in Phoenix, AZ. Research Creativity Week, NMSU. Las Cruces, NM, USA.

Valles-Rosales, D.J., M. Vela. and M. J. Desmond. 2022.HSI STEM Resource Hub Builds Grant Writing Skills Across HSIs. Hispanic Association of Colleges and Universities (HACU). San Diego, CA, USA.

Desmond, M. J., Salas\*, A. J., Abadi, F. 2022. Temporal variation influences nest survival of Bendire's Thrashers in the Chihuahuan Desert. New Mexico Avian Conservation Partnership, Socorro, NM, USA.

Peres-Finch\*, S., Desmond, M. J., Abadi, F., 2022. ACES Open House, Impacts of Passive Relocation on the Survival of Burrowing Owls (*Athene cunicularia*) in Phoenix, AZ, USA.

Desmond, M. J., Sicich\*, B., Abadi, F. 2022. Influence of arthropod and habitat characteristics on foraging site selection of pinyon jays in southern New Mexico. (2022). ACES Open House, Las Cruces, NM, USA.

K. Boland\*\*, A. Lawson, and Desmond, M. J. 2022. Quantifying avian mortality on the White Sands Missile Range. ACES Open House, Las Cruces, NM, USA.

Ellison\*, J., Desmond, M. J., Abadi, F. 2022. Using a bayesian hierarchical model to estimate the effect of nest age on burrowing owl nest survival. ACES Open House, Las Cruces, NM, USA.

Perez-Finch\*, S., Desmond, M. J., Abadi, F. 2022. Impacts of Passive Relocation on the Survival of Burrowing Owls (*Athene cunicularia*) in Phoenix, AZ. ACES Open House, Las Cruces, NM, USA.

Sicich\*, B., Desmond, M. J., Abadi, F. 2022. Influence of arthropod and habitat characteristics on foraging site selection of pinyon jays in southern New Mexico. Joint Annual Meeting of the New Mexico/Arizona Wildlife Society, Phoenix, AZ, USA.

Osterhaus<sup>\*\*</sup>, D., Boland<sup>\*\*</sup>, K., Wright, T., Desmond, M. J. 2022, Mortalities during migration brought to light. Mesilla Valley Audubon, Las Cruces, NM, USA.

Ellison<sup>\*</sup>, J., Desmond, M. J., Abadi, F. 2022 Using a Bayesian hierarchical model to estimate the effect of nest age on burrowing owl nest survival. Graduate Research Symposium, New Mexico State University, Las Cruces, NM, USA.

Sicich<sup>\*</sup>, B., Desmond, M. J., Abadi, F. 2022. Influence of arthropod and habitat characteristics on foraging site selection of pinyon jays in southern New Mexico. Graduate Research Symposium, New Mexico State University, Las Cruces, NM, USA.

Sicich<sup>\*</sup>, B., Desmond, M. J., Abadi, F. 2022. Influence of arthropod and habitat characteristics on foraging site selection of pinyon jays in southern New Mexico. Wilson Ornithological Society, Santa Fe, NM, USA.

Osterhaus<sup>\*\*</sup>, D., Wright, T., Desmond, M. J. 2022. Examining the Potential Impacts of Localized Light Pollution on Migrating Birds. ACES Open House, Las Cruces, NM, USA.

Osterhaus<sup>\*</sup>, D., Wright, T., Desmond, M. J. 2022. Shedding “light” on migration mortalities: New research underway at New Mexico State University. New Mexico Ornithological Society, Albuquerque, NM, USA.

Osterhaus<sup>\*\*</sup>, D., Wright, T., and Desmond, M. J., 2022. Blinded by the Examining the effects of artificial lighting on bird migration in the desert southwest. Joint Annual Meeting of the New Mexico/Arizona Wildlife Society, Phoenix, AZ, USA.

Boland<sup>\*\*</sup>, K., Osterhaus<sup>\*\*</sup>, D., Wright, T., Desmond, M. J., 2022. Bird mortality event: ongoing research. Mesilla Valley Audubon, Las Cruces, NM, USA.

Osterhaus<sup>\*\*</sup>, D. M. T. Wright, and M.J. Desmond, M.J. 2021. Shedding “light” on migration mortalities. Kansas Ornithological Society.

Salas<sup>\*</sup>, A. J., Desmond, M. J., Gebreselassie, F. A. 2020. Bendire’s Thrasher nest survival in relation to vegetation characteristics in the southwest United States. The seventh North American Ornithological Conference (NAOC VII) (Virtual).

Fonseca, K. I. <sup>\*\*\*</sup>, Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D. H., Gebreselassie, F. A., 2020. Factors affecting Burrowing Owl nest site selection in artificial burrows in Arizona. The seventh North American Ornithological Conference (NAOC VII) (Virtual),

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D. H., Gebreselassie, F. A. 2020. Lost in translocation: Effects of mitigation translocation on Burrowing Owl survival and fidelity". The seventh North American Ornithological Conference (NAOC VII) (Virtual),

Tarazona<sup>\*</sup>, F., Britt, C. R., Gebreselassie, F. A., Desmond, M. J., 2020. Use of artificial nests and selection requirements by Amazon parrots in Belize". The seventh North American Ornithological Conference (NAOC VII) (Virtual),

Salas<sup>\*</sup>, A., Desmond, M.J. Gebreselassie, F. A., 2019. Bendire's Thrasher nest survival in relation to vegetation characteristics in the Southwest United States". Chihuahuan Desert Conference, El Paso Zoo, El Paso, TX, USA.

Rodriguez<sup>\*\*\*</sup>, J., Doublet<sup>\*</sup>, D., Desmond, M. J., Gebreselassie, F. A., Johnson, D. 2020. Factors affecting the Presence of Burrowing Owls at Artificial Habitat Sites in Arizona. Chihuahuan Desert Conference, El Paso Zoo, El Paso, TX, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A. 2019. Lessons learned: Effects of translocation on burrowing owls in Arizona. Chihuahuan Desert Conference, El Paso Zoo, El Paso, TX, USA.

Fonseca<sup>\*\*\*</sup>, K., Doublet<sup>\*</sup>, D., Desmond, M. J. Gebreselassie, F. A., Johnson, D. 2019. Factors affecting Western Burrowing Owl nest site selection of artificial burrow systems in Arizona. American Field Ornithologists-Wilson Ornithological Society joint meeting, Cape May, NJ, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A., 2019. Lessons Learned: Effects of translocation on burrowing owls in Arizona. American Ornithologists-Wilson Ornithological Society Joint Meeting, Cape May, NJ, USA.

Salas<sup>\*</sup>, A., Desmond, M. J., Gebreselassie, F. A. 2019. Bendire's Thrasher nest and juvenile survival in relation to vegetation characteristics in the southwest United States. BLM Regional Meeting, Sevilleta NWR, Socorro, NM, USA.

Salas<sup>\*</sup>, A., Desmond, M. J., Gebreselassie, F. A. 2019. Bendire's Thrasher nest and juvenile survival in relation to vegetation characteristics in the southwest United States. Western Field Ornithologists 44th Annual Meeting, Albuquerque, NM, USA

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A., 2019. Effects of translocation on burrowing owl survival, fidelity and nest survival in Arizona. American Ornithological Society, Anchorage, AK, USA.

Tarazona-Tubens<sup>\*</sup>, F., Britt, C., Gebreselassie, F. A., Desmond, M. J 2019. Investigating Natural and Anthropogenic Related Causes of Nest Failure in the Yellow-headed Parrot. American Ornithological Society, Anchorage, AK, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A. 2019. Tracking the outcomes of burrowing owl translocations from urban development sites to artificial habitat in Arizona" ACES Open House, New Mexico State University, Las Cruces, NM, USA. \*\*  
*Dejeanne received the third place award for the ACES poster competition.*

Fonseca<sup>\*\*\*</sup>, K., Doublet<sup>\*</sup>, D., Desmond, M. J., Gebreselassie, F. A., Johnson, D. 2019. Factors affecting Western Burrowing Owl nest site selection of artificial burrow systems in Arizona. ACES Open House, New Mexico State University, Las Cruces, NM, USA.

Rodriguez<sup>\*\*\*</sup>, J., Doublet<sup>\*</sup>, D., Desmond, M. J., Gebreselassie, F. A., Johnson, D. 2019. Factors affecting the presence of Burrowing Owls at artificial habitat sites in Arizona. ACES Open House, New Mexico State University, Las Cruces, NM, USA.

Tarazona-Tubens<sup>\*</sup>, F., Britt, C., Gebreselassie, F. A., Desmond, M. J., 2019. Nest Poaching of the Endangered Yellow-headed Parrot: Effects of Temporal and Environmental Factors. ACES Open House, New Mexico State University. Las Cruces, NM, USA. <sup>\*\*</sup> *Fabio received first place for the poster competition in ACES*

Osorio<sup>\*\*\*</sup>, A, Tarazona-Tubens<sup>\*</sup>, F., Britt, C., Desmond, M. J. 2019. Nest visitation rates and fledgling outcomes of Belizean Yellow-headed Parrots (*Amazona oratrix*). ACES Open House, New Mexico State University, Las Cruces, NM, USA.

Desmond, M. J., Garcia, O., Lindline, J., Baca, B., Tafoya, R., 2019. Southwest Natural Resource Career Track Program. ACES Open House, New Mexico State University, Las Cruces, NM, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A., 2019. "Lessons Learned: Effects of translocation on burrowing owls in Arizona. NMSU Graduate Research and Arts Symposium, Las Cruces, NM, USA.

Desmond, M. J., Zavala, M., Juarez, J., Cooper, S. L., Torres, M., Iniguez, J., Valles-Rosales, D. J., Knight, B., Serrano, E. 2019. NSF Hispanic Serving Institution STEM Resource Hub. Texas Hispanic Serving Institutions Consortium (TxHSIC), San Antonio, TX, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A. 2019. "Lessons Learned: Effects of translocation on burrowing owls in Arizona. Burrowing Owl Partners Meeting, Arizona Game and Fish Department, Mesa, AZ, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. A., 2019. Lessons Learned: Effects of translocation on burrowing owls in Arizona. Wild Birds Unlimited Public Seminar, Las Cruces, NM, , USA.

Salas<sup>\*</sup>, A., Desmond, M. J., Gebreselassie, F. A. 2019. Bendire's Thrasher nest survival and juvenile condition and survival in relation to land management in New Mexico. New Mexico Avian Conservation Partners Annual meeting, Sevilleta NWR, Socorro, NM, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Gebreselassie, F., Johnson, D. 2018. "Assessment of western Burrowing Owl (*Athene cunicularia*) translocations from urban development sites in

Arizona. Arizona Avian Conservation Initiative, Arizona Department of Game and Fish, Phoenix, AZ, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Gebreselassie, F., Johnson, D., AZ 2018. Assessment of western Burrowing Owl (*Athene cunicularia*) translocations from urban development sites in Arizona.. Southwest Audubon Society, Phoenix, AZ, USA.

Tarazona<sup>\*</sup>, F.L., Britt, C.R., Abadi, F., Desmond, M. J. 2018. Nest survival in yellow-headed parrots (*Amazona oratrix*): Effects of physical properties of cavity and spatial characteristics of habitat". (27th International Ornithological Congress, Vancouver, Canada,

Porro<sup>\*</sup>, C.M., Desmond, M. J., Savidge, J.A., Abadi, F., Cruz-McDonnell, K., Griebel, R. 2018. Influence of drought on nest phenology of the Burrowing Owl (*Athene cunicularia*) throughout the Great Plains. 136th Annual Meeting of American Ornithology Society, Tucson, AZ, USA,

Osorio<sup>\*\*\*</sup>, A., Tarazona<sup>\*</sup>, F., Desmond, M. J., Britt, C., 2018. Nest visitation rates and fledgling outcomes of Belizian Yellow-headed parrots (*Amazona oratrix*). ACES Open House, Las Cruces, NM, USA.

Tarazona<sup>\*</sup>, F., Desmond, M., Britt, C., Gebreselassie, F. 2018. What factors influence nest survival of the endangered Yellow-headed Parrot (*Amazona oratrix*) in Belize? Meso American Biology, Belmopan, Belize.

Rodriguez<sup>\*\*\*</sup>, J., Desmond, M. J., Doublet<sup>\*</sup>, D., Johnson, D., 2018. Influence of local and landscape factors on Burrowing Owl artificial habitat site occupancy in Arizona. Undergraduate Research and Creative Arts Symposium, Las Cruces, NM, USA.

Meliopoulos<sup>\*</sup>, D., Desmond, M. J., Daniel, D., 2018. Impacts of solar energy development on breeding birds in the Nutt Grasslands, New Mexico. 136th Annual Meeting of the American Ornithological Society. Tuscon, AZ, USA.

Bear Sutton<sup>\*\*</sup>, C., Desmond, M. J., Darr, M., VanLeeuwen, D. 2018. Bendire's thrasher (*Toxostoma bendirei*) breeding territory size and selection in the southwest. 136th Annual Meeting of the American Ornithological Society, Tuscon, AZ, USA.

Desmond, M.J., Garcia, O., Baca, B., Tafoya, R., Trujillo, F., Lindline, J., 2018. Southwest Natural Resource Career Track Program. USDA HSI PI Meeting, New Mexico State University, Albuquerque, NM, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D.H., Abadi, F. 2018. Assessment of western Burrowing Owl (*Athene cunicularia*) translocations from urban development sites to artificial habitat in the Phoenix, Arizona area. (April 2018). 136th Annual Meeting of American Ornithology Society, Tucson, AZ, USA.

Porro<sup>\*</sup>, C, Desmond, M. J., Savidge, J., Gebreselassie, F., Griebel, R., Cruz-McDonnell, K., Eckstein, R., Davis, J., Hernandez Rodriguez, N<sup>\*</sup>, 2018. Delays in Burrowing Owl (*Athene cunicularia*) nest phenology associated with drought throughout the Great Plains. Graduate Research and Arts Symposium,, Las Cruces, NM, USA.

Tarazona<sup>\*</sup>, F, Britt, C., Gebreselassie, F., Desmond, M. J. 2018. Nest survival in Yellow-headed parrots *Amazona oratrix*: effects of physical properties of cavity and spatial characteristics of habitat. Graduate Research and Arts Symposium, Las Cruces, NM, USA.

Doublet<sup>\*</sup>, D., Desmond, M. J., Johnson, D., Gebreselassie, F. 2018. Survival, movements and nesting of translocated Burrowing Owls in the Phoenix, Arizona area. Graduate Research and Arts Symposium, Las Cruces, NM, USA.

Osorio<sup>\*\*\*</sup>, A., Tarazona<sup>\*</sup>, F., Desmond, M. J., Britt, C., 2018. Nest visitation rates and fledgling outcomes of Belizian Yellow-headed parrots (*Amazona oratrix*). Undergraduate Research and Creative Arts Symposium, Las Cruces, NM, USA.

Doublet<sup>\*</sup>, D., Desmond, M., Gebreselassie, F., Johnson, D. 2018. Assessment of western Burrowing Owl (*Athene cunicularia*) translocations from urban development sites in Arizona. ACES Open House, Las Cruces, NM, USA.

Porro<sup>\*</sup>, C, Desmond, M., Gebreselassie, F., Savidge, J., Cruz-McDonnell, K., Griebel, R., Davis, J., Eckstein, R., Hernandez-Rodriguez, N<sup>\*</sup>, 2018. Influence of drought on nest phenology of the Burrowing Owl throughout the Great Plains Region. ACES Open House, Las Cruces, NM, USA.

Rodriguez<sup>\*\*\*</sup>, J., Desmond, M. J., Doublet, D<sup>\*</sup>, Johnson, D. 2018. Influence of local and landscape factors on Burrowing Owl artificial habitat site occupancy in Arizona. ACES Open House, Las Cruces, NM, USA.

Tarazona<sup>\*</sup>, F., Desmond, M., Britt, C., Gebreselassie, F. 2018. Nest survival in Yellow-headed parrots *Amazona oratrix*: effects of physical properties of cavity and spatial characteristics of habitat. ACES Open House, Las Cruces, NM, USA.

Desmond, M. J., Garcia, O., Lindline, J., Baca, B., Tafoya, R., Trujilo, F., 2018. Southwest Natural Resource Career Track Program. ACES Open House, Las Cruces, NM, USA.

Bear Sutton<sup>\*\*</sup>, C.T., M.J. Desmond, M Darr, and D. VanLeeuwen. 2017. Breeding habitat requirements of Bendire's Thrasher throughout its New Mexico range. New Mexico Ornithological Society, Albuquerque, NM, USA.

Porro<sup>\*</sup>, C., M. Desmond, J. Savidge, F. Gebreselassie, R. Griebel, K. Cruz-McDonnell, and R. Eckstein. 2017. Is climate change influencing nest phenology of the Burrowing Owl? New Mexico Ornithological Society, Albuquerque, NM, USA.



Hayes, Q. and M.J. Desmond. 2016. New Mexico Higher Education Department Assessment and Retention, Albuquerque, NM, USA.

Meliopoulos<sup>\*\*</sup>, D., Desmond, M., Daniels, D. 2016. Impacts of solar energy development on breeding birds of the Nutt grasslands. New Mexico. New Mexico Ornithological Society, Albuquerque, NM, USA.

Bear Sutton<sup>\*\*</sup>, C., Desmond, M. J., Darr, M. 2016. Distribution and breeding habitat requirements of Bendire's Thrasher (*Toxostoma bendirei*) throughout its New Mexico Range. New Mexico Ornithological Society, Albuquerque, NM, USA.

Meliopoulos<sup>\*\*</sup>, D., Desmond, M. J. 2015. Impacts of solar energy development on breeding birds of the Nutt Grasslands, NM. New Mexico Ornithological Society, Roswell, New Mexico, USA.

Dominguez<sup>\*</sup>, D., Desmond, M. J., Roemer, G. W., Gould, W. R. 2014. Stable isotopes reveal high breeding dispersal of a migratory owl (*Athene cunicularia hypugaea*). 4th International Burrowing Owl Symposium, Pasco, WA, USA.

Williams<sup>\*\*\*</sup>, C., Davis, J. <sup>\*</sup>, and Desmond, M. J. 2014. Reproductive Success of The Western Burrowing Owl (*Athene cunicularia hypugaea*) in agricultural and urban habitats of Dona Ana County, New Mexico. 4th International Burrowing Owl Symposium, Pasco, WA, USA.

Campos<sup>\*\*</sup>, M., Davis, J. <sup>\*</sup>, Desmond, M. J., 2014. Influence of nest density and landscape fragmentation on Burrowing Owl prey deliveries to nests. 4th International Burrowing Owl Symposium, Pasco, WA, USA.

Duke<sup>\*</sup>, E., Desmond, M. J., VanLeeuwen, D. 2014. Juvenile Burrowing Owl survival and dispersal in the urban/agricultural interface of Las Cruces, NM. 4th international Burrowing Owl Symposium, Pasco, WA, USA

Campos<sup>\*\*\*</sup>, M., Davis<sup>\*</sup>, J., Desmond, M. J. 2014. Influence of nest density and landscape fragmentation on Burrowing Owl prey deliveries to nests. New Mexico Alliance for Minority Participation, Las Cruces, NM, USA.

Desmond, M.J., J. Zimmerman, J. Davis, E. Concepcion, B. Baca, A. Padilla, R. Tafoya, and Q. Hays. 2014, Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities in forest management and climate change ecology. USDA NIFA Hispanic Serving Institutions National Meeting. Washington DC, USA. Brought four faculty and four students.

Desmond, M.J., J. Zimmerman, J. Davis, E. Concepcion, B. Baca, A. Padilla, R. Tafoya, and Q. Hays. 2014, Preparing students for career paths with the USDA Forest Service by linking student success with experiential learning opportunities in forest management and climate

change ecology. USDA NIFA Hispanic Serving Institutions National Meeting, Beltsville, MD, USA. \*brought four faculty members and seven students.

Campos<sup>\*\*\*</sup>, M., Davis<sup>\*</sup>, J., Desmond, M. J. 2013. Influence of nest density and landscape fragmentation on Burrowing Owl prey delivery to nests. New Mexico Alliance for Minority Participation, State Meeting, Las Cruces, NM, USA. (Second place for best student presentation).

Duke<sup>\*</sup>, E. and M. J. Desmond. 2013. Juvenile Burrowing Owl survival and movement patterns in an urban and agricultural landscape. New Mexico-Arizona Joint Meetings of the Wildlife Society, Albuquerque, NM, USA.

Campos<sup>\*\*</sup>, M., Davis<sup>\*</sup>, J., Desmond, M. J. 2013. Influence of nest density and landscape fragmentation on Burrowing Owl prey delivery to nests. New Mexico-Arizona Joint Meetings of the Wildlife Society, Albuquerque, NM, USA.

Curley<sup>\*\*\*</sup>, K., M.J. Desmond, and V. DiAndrea<sup>\*\*\*</sup> 2013. Nonbreeding Roadside Survey on the Western Burrowing Owl, *Athene cunicularia hypugea*. New Mexico-Arizona Joint Meetings of the Wildlife Society, Albuquerque, NM, USA.

Desmond, M. J., Zimmerman, J., Baca-Sanchez, B., Padilla, A., Tafoya, R., Concepcion, E., Frey, J. K. 2013. New Mexico-Puerto Rico Natural Resource Career Trak (NRCT) Program: Successfully preparing students for careers in natural resource fields. USDA HSI ROCN PI Meeting, Mayaguez, PR, USA.

Good<sup>\*\*</sup>, J., M.J. Desmond, R. Treminio<sup>\*</sup>, W. Gould, G. Roemer, and C. Campbell. 2011. Factors influencing nest survival and productivity in western burrowing owls across the Great Plains. New Mexico Ornithological Society, Las Cruces NM. USA.

Cobos<sup>\*\*\*</sup>, H., V. DiAndrea<sup>\*\*\*</sup>, and M.J. Desmond. 2011. City of Las Cruces burrowing owl management project. New Mexico Ornithological Society, Las Cruces NM, USA.

Campos<sup>\*\*\*</sup>, M. J. Good<sup>\*\*</sup>, and M.J. Desmond. 2011. Influence of nest density and landscape fragmentation on burrowing owl prey delivery to nests. New Mexico Ornithological Society, Las Cruces NM. USA.

Campos<sup>\*\*</sup>, M.J. Good<sup>\*\*</sup>, and M.J. Desmond. 2011. Influence of nest density and landscape fragmentation on burrowing owl prey delivery to nests. Alliance for Minority Participation Symposium, New Mexico State University, Las Cruces NM, USA.

Hagman<sup>\*\*\*</sup>, M.B, J. Good<sup>\*\*</sup> and M.J. Desmond. 2011. Identification of burrowing owl predators in black-tailed prairie dog colonies across the Great Plains. New Mexico Ornithological Society, Las Cruces NM, USA.

Williams<sup>\*\*\*</sup>, C, J. Good<sup>\*\*</sup>, and M.J. Desmond. 2011. Does burrowing owl (*Athene cunicularia*) nest density influence time devoted to alert behaviors? New Mexico Ornithological Society, Las Cruces NM, USA.

Williams<sup>\*\*\*</sup>, C., J. Good<sup>\*\*</sup>, and M.J. Desmond. 2011. Does burrowing owl (*Athene cunicularia*) nest density influence time devoted to alert behaviors? NMSU Minority Biomedical Research Support- Research Initiative for Scientific Enhancement (RISE), Las Cruces NM, USA.

Desmond, M.J., D. Augustine, J. Sidle, C. Campbell, W. Gould, A. Lafon and G. Roemer. 2011. Source-sink dynamics in grassland bird populations across Great Plains prairie dog colonies: implications for biological diversity and livestock management. USDA-NIFA-NRI Managed Ecosystems Project Director Meeting, Washington DC, USA

Desmond, M.J., C. Mendez<sup>\*</sup>, and L. Abbott. 2010. Response of a winter sparrow community to a seed manipulation experiment. New Mexico Ornithological Society Meetings, Albuquerque, NM, USA.

Treminio<sup>\*</sup>, R, M.J. Desmond and M. DeVries<sup>\*\*</sup>. 2010. Burrowing owl nest site selection and productivity in relation to local and landscape factors across Great Plains National Grasslands. New Mexico Ornithological Society Meeting, Albuquerque, NM, USA.

Desmond, M.J., C. Mendez<sup>\*</sup>, and L.B. Abbott. 2010. Response of a winter sparrow community to a seed manipulation experiment. COS, AOU, CO joint meetings, San Diego, CA, USA.

Treminio<sup>\*</sup>, R, M.J. Desmond and M. DeVries<sup>\*\*</sup>. 2010. Burrowing owl nest site selection and productivity in relation to local and landscape factors within three northern Great Plains National Grasslands. Joint TWS/AFS meeting, Flagstaff, AZ, USA.

Good<sup>\*\*</sup>, J., M.J. Desmond, C. Campbell, W. Gould, and G. Roemer. 2010. Factors influencing productivity and nest site selection in western burrowing owls on the Comanche, Kiowa, and Rita Blanca National Grasslands. Joint TWS/AFS meeting, Flagstaff, AZ, USA.

Boeing, W.J. and M.J. Desmond. 2009. Combining scholarship and teaching with recruitment: how to kill two birds with one stone. Western Region Teaching Symposium, Las Cruces, NM, USA.

Desmond, M.J., D. Augustine, J. Sidle, C. Campbell, W. Gould, A. Lafon and G. Roemer. 2009. Source-sink dynamics in grassland bird populations across Great Plains prairie dog colonies: implications for biological diversity and livestock management. USDA-NIFA-NRI Managed Ecosystems Project Director Meeting, Pittsburgh, PA, USA.

Boeing, W.J. and M.J. Desmond. 2009. Combining scholarship and teaching with recruitment – how to kill two birds with one stone. Western Region Teaching Symposium, Las Cruces, NM, USA.

De La O<sup>\*\*\*</sup>, I. and M. J. Desmond. 2008. Effects of cattle grazing and environmental factors on seed production in dropseed dominated grasslands of the Chihuahuan Desert. NMSU AMP Program, New Mexico State University, Las Cruces, NM, USA. (received best presentation award)

Cobos<sup>\*\*\*</sup>, H., R. Treminio<sup>\*</sup>, and M.J. Desmond 2008. Movement patterns of burrowing owls determined through stable isotope and molecular techniques. AMP program, New Mexico State University, Las Cruces, NM, USA.

Joos<sup>\*\*</sup>, C, M.J. Desmond, R. Holberton. 2007. Are shrub encroached grasslands sub-optimal habitat for wintering sage sparrows (*Amphispiza belli*)? Society for Southwestern Naturalists, Annual Meeting, Colima, Mexico.

Desmond, M.J. 2007. Burrowing owl ecoregional research across Great Plains National Grasslands. USDA Forest Service, Denver CO, USA.

Desmond, M.J. C. Mendez-Gonzalez<sup>\*</sup> and L.B. Abbott. 2007. Seed production, grazing management and winter avian community dynamics: applications to desert grassland systems. NMSU Advance Science Symposium, Las Cruces, NM, USA.

Dominguez<sup>\*</sup>, D. and M.J. Desmond. 2007 Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, Hispanic Serving Institution, Student Leadership Program, Washington, DC, USA.

Joos<sup>\*</sup>, C, M.J. Desmond, R. Holberton. 2006. Are shrub encroached grasslands sub-optimal habitat for wintering sage sparrows (*Amphispiza belli*)? North American Ornithological Society Meeting in Veracruz Mexico.

McNicol<sup>\*\*</sup>, J.M., Boyle<sup>\*\*\*</sup>, R. and M.J. Desmond. 2006. Burrowing owl (*Athene cunicularia*) nest site selection in relation to prairie dog colony characteristics and surrounding land-use practices in Janos, Chihuahua, Mexico. International Burrowing owl symposium at the North American Ornithological Society Meeting in Veracruz Mexico.

Mendez<sup>\*</sup>, C., M.J. Desmond, and L.B. Abbott. 2006. Avian community dynamics in Chihuahua Desert grasslands: Influence of seed type and quantity. North American Ornithological Society Meeting in Veracruz Mexico..

Boyle<sup>\*\*\*</sup>, R., M.J. Desmond and L. C. Mason<sup>\*\*\*</sup>. 2006. Is nest decoration an indication of parental ability in the burrowing owl (*Athene cunicularia*)? New Mexico-Arizona Joint Meetings of the Wildlife Society. Flagstaff, AZ, USA.

Desmond, M.J. C. Mendez-Gonzalez\* and L.B. Abbott. 2006. Seed production, grazing management and winter avian community dynamics: applications to desert grassland systems. USDA Project Directors Meeting, Indianapolis, IN, USA.

Desmond, M.J. 2006. Student experiential learning in a multicultural environment through agency internships and an international exchange program. USDA, CSREES, National Research Initiative, Hispanic Serving Institutions Principal Investigators Meeting, Washington, DC, USA.

McNicol\*\*, J. and M.J. Desmond. 2005. Burrowing owl (*Athene cunicularia*) nest site selection in relation to prairie dog colony characteristics and surrounding land-use practices in Janos, Chihuahua, Mexico Joint Meeting of the Wilson Ornithological Society and the Society for Field Ornithology. Washington D.C.

Desmond, M.J. 2005. Cooperative grassland bird research along the U.S./Mexico border. U.S./Mexico Border Conference, National Park Service. New Mexico State University, Las Cruces, NM, USA.

Mendez-Gonzalez\*, C., M.J. Desmond and L. B. Abbott. 2004. Seed selection by winter sparrows in southwest New Mexico. Chihuahuan Desert Research Symposium, Sul Ross State University, Alpine, TX, USA.

Mason\*\*\*, L.C., M.J. Desmond, and M. S. Agudelo\*. 2004. Influence of grassland type, nest type and shrub encroachment on artificial nests in Chihuahuan Desert grasslands. Western Regional Undergraduate Student CONCLAVE, Lubbock, TX, USA.

Haan\*\*, S.S. and M.J. Desmond. 2004. Effectiveness of 3 capture methods for a terrestrial salamander, *Aneides hardii*. New Mexico State University, Graduate Research Annual Symposium. Las Cruces, NM., USA

Haan\*\*, S. S. and M.J. Desmond. 2004. Effectiveness of 3 capture methods for a terrestrial salamander, *Aneides hardii*. New Mexico-Arizona Joint Meetings of the Wildlife Society. Safford, AZ, USA.

Mason\*\*, L.C., M. J. Desmond, and M. S. Agudelo\*. 2004. Influence of grassland type, nest type and shrub encroachment on artificial nests in Chihuahuan Desert grasslands. New Mexico-Arizona Joint Meetings of the Wildlife Society. Safford, AZ, USA.

McNicol\*\*, J. and M.J. Desmond. 2004. Burrowing owl nest site selection in relation to prairie dog colony characteristics and surrounding land-use practices in Janos, Chihuahua Mexico. New Mexico-Arizona Joint Meetings of the Wildlife Society, Safford, AZ, USA.

Desmond, M.J. 2004. Field presentation on grassland bird communities in semidesert and southern plains grasslands of the Chihuahuan Desert. Tour of Otero Mesa. Sponsored by Society for Range Management, New Mexico Section., Las Cruces, NM, USA.

Desmond, M.J. 2003. La avifauna del norte de México. Biología Simposio, Universidad Autónoma de Ciudad de Juárez, Chihuahua, México.

McNicoll, \*\* J., and M.J. Desmond. 2003. Selección de nidos por la lechuza llanera (*Athene cunicularia*) en relación a las características de las colonias de perritos llaneros y los usos de suelo alrededor a las colonias en Janos, Chihuahua, México. Biology Symposium, Universidad de la Ciudad de Juárez, Chihuahua, MX.

McNicoll\*\*, J. and M.J. Desmond. 2003. Burrowing owl (*Athene cunicularia*) nest site selection in relation to prairie dog colony characteristics and surrounding land-use practices in Janos, Chihuahua, Mexico. Western Regional Partners in Flight Conference, Silver City, NM., USA.

Agudelo\*, M.S. and M.J. Desmond. 2003. Influence of habitat fragmentation and shrub encroachment on avian community dynamics in Chihuahuan Desert grasslands. Western Regional Partners in Flight Conference, Silver City, NM., USA.

Desmond, M.J. 2003. Composición y diversidad de la comunidad de aves de pastizal en el Norte de Mexico durante el invierno. Workshop, Universidad Autónoma de Chihuahua y la estación La Campana, Chihuahua, MX.

Desmond, M.J. 2003. National 4-H Competition. Field presentation on small mammals and birds in the Chihuahuan Desert. Las Cruces, NM, USA.

Desmond, M.J., A. Lafon and F. Chavez-Ramirez. 2002. Assemblage composition and diversity of grassland birds wintering in northern Mexico: influence of land management practices. 3rd North American Ornithological Conference, New Orleans LA, USA.

Niemela\*\*, S.A. and M.J. Desmond. 2002. Influence of seed abundance and diversity on a wintering Chihuahuan Desert avifauna. 3rd North American Ornithological Conference, New Orleans, LA, USA.

Berardelli\*\*, D. and M.J. Desmond. 2002. Burrowing Owl (*Athene cunicularia*) nesting strategies and reproductive success in urban versus native habitats and among burrow types in southern New Mexico. 3rd North American Ornithological Conference, New Orleans, LA, USA.

Niemela\*\*, S.A. and M.J. Desmond. 2001. Winter habitat associations of a Chihuahuan Desert avian community: effects of vegetation structure and floristic composition. The Wildlife Society Annual Meeting, Reno, NV, USA.

Desmond, M. J., F. Chavez-Ramirez and A. Lafon-Terrazas. 2001. Grassland bird habitat associations, distribution and abundance on winter grounds in Chihuahua, Mexico. Cooper Ornithological Society, Grassland Bird Symposium. Albuquerque, NM., USA

Niemela\*\*, S.A. and M.J. Desmond. 2001. Winter habitat associations of a Chihuahuan Desert avian community: effects of vegetation structure and floristic composition. Cooper Ornithological Society, Grassland Bird Symposium. Albuquerque, NM., USA.

Desmond, M.J., F. Chavez-Ramirez and A. Lafon-Terrazas. 2001. Grassland bird habitat associations on winter grounds in Chihuahua, Mexico. New Mexico-Arizona Joint Meetings of the Wildlife Society, Gallup, NM., USA.

Niemela\*\*, S.A. and M.J. Desmond. 2001. Winter habitat associations of a Chihuahuan Desert avian community: effects of vegetation structure and floristic composition. New Mexico-Arizona Joint Meeting of The Wildlife Society, Gallup, NM., USA.

Berardelli\*\*, D. and M.J. Desmond. 2001. Burrowing owl (*Athene cunicularia*) nesting strategies and reproductive success in urban versus native habitats and among burrow types in southern New Mexico. New Mexico-Arizona Joint Meeting of The Wildlife Society, Gallup, NM., USA.

Desmond, M.J. 2001. Status of Chihuahuan Desert grasslands: Grassland ecosystems, endangered species, and sustainable ranching in the Mexico-United States borderlands. Invited speaker. Casas Grandes, Chihuahua, Mexico.

Desmond, M.J., F. Chavez-Ramirez and A. Lafon-Terrazas. 2000. Grassland bird habitat associations on winter grounds in Chihuahua, Mexico. The Wildlife Society Annual Meeting. Nashville, TN., USA.

Desmond, M.J. 1998. Bird Banding Workshop. Universidad Autónoma de Chihuahua in Chihuahua, Mexico for students in Wildlife Sciences. La Campana Field Station, Chihuahua, MX.

Desmond, M.J. 1998. Bird Banding Workshop. Co-organized with Felipe Chavez-Ramirez at Rancho Los Angeles in Saltillo, Mexico for students from the Universidad Agraria Autónoma Antonio Narro, Saltillo, Mexico.

Desmond, M.J., T.J. Parsons, T.O. Powers and J.A. Savidge. 1997. Evolutionary history of the Burrowing Owl: a genetic perspective. American Ornithologist Union Annual Meeting, Minneapolis, MN, USA.

Desmond M.J. and J.A. Savidge. 1996. Importance of black-tailed prairie dogs to burrowing owl populations. 58th Midwest Fish and Wildlife Meeting, Omaha, NE, USA.

Desmond, M.J. and J.A. Savidge. 1995. Satellite burrow use by Burrowing Owl chicks: the importance of black-tailed prairie dog populations for maintaining Burrowing Owl populations. Grassland Bird International Conference and Training Workshop and AFO Annual Meeting, Tulsa, OK, USA.

Desmond, M. J. and J. A. Savidge. 1995. Burrowing Owl foraging behavior and its relevance to their conservation. Grassland Bird International Conference and Training Workshop and AFO Annual Meeting, Tulsa, OK, USA.

Desmond, M.J. and J.A. Savidge. 1995. Influence of prairie dog reductions on burrowing owl populations in western NE. Society for Conservation Biology, Fort Collins, CO, USA.

Desmond, M.J. and J.A. Savidge. 1994. Factors influencing Burrowing Owl reproductive success in the Great Plains. Joint Meeting of the American, Cooper and Wilson Ornithological Societies, Missoula, MT, USA.

Desmond M.J. and J.A. Savidge. 1994. The influence of prairie dog reductions on burrowing owl populations in western Nebraska. Center for Great Plains Studies, Grassland Symposium, Lincoln, NE, USA.

Desmond, M.J. and J.A. Savidge. 1994. Burrowing owl population declines in western Nebraska, Nebraska Chapter of The Wildlife Society, Halsey, NE, USA.

Desmond, M.J. and J.A. Savidge. 1990. Solitary versus gregarious nesting in burrowing owls. Midwest Fish and Wildlife Conference, Minneapolis, MN, USA.

Desmond, M.J. and J.A. Savidge. 1990. Solitary versus gregarious nesting in burrowing owls. Nebraska Academy of Sciences, Lincoln, NE, USA.

Desmond, M.J. and J.A. Savidge. 1990. The ecology of burrowing owls in the Nebraska Panhandle. Nebraska Chapter of The Wildlife Society, Aurora, NE, USA.

Desmond, M.J., L.J. Goodrich and S.E. Senner. 1986. Migrant raptor use of the farmland region surrounding the Kittitanny Ridge in Berks and Lehigh Counties, PA. Pennsylvania Academy of Sciences, Philadelphia, PA, USA.

### **Awards and Recognition for Excellence**

- 2021 NMSU and College of Agricultural, Consumer and Environmental Sciences and New Mexico State University, university-wide award. Rousch Teaching Excellence

2019 Outstanding Mentor Award. NMSU Teaching Academy

2017 USDA Partnership Award, presented for “outstanding leadership and dedicated commitment to diversity programs and student success.” USDA Hispanic Serving Institutions, Annual PI Meeting, Albuquerque, NM February 17, 2017.

2016 Regents Professorship, New Mexico State University, January 19, 2016



2015, Professional of the Year, New Mexico Chapter of the Wildlife Society, February 6, 2015.

2011 USDA Forest Service, Wings Across the Americas, 2011 Conservation Award for International Cooperation, North American Wildlife and Natural Resources Conference, Kansas City, MO, March 14-18, 2011.

2010 College of Agricultural, Consumer and Environmental Sciences, TEAM AWARD for the development of the New Mexico Natural Resources Consortium

2010 USDA Forest Service, National Grassland Interpreter Award, for introducing over 70 NMSU and UACH undergraduate and graduate students to careers in research and the USDA Forest Service through summer internship experiences on USDA Forest Service National Grasslands. National Grasslands Annual Conference, Black Kettle National Grassland, Granite OK, May 4-5.

### **Teaching Scholarship and Creative Activities**

#### **Classes Taught (New Mexico State University)**

FWCE 1110G Introduction to Natural Resources  
FWCE 536 Advanced Avian Ecology  
FWCE 430 Avian Field Ecology  
FWCE 402 Undergraduate Seminar  
FWCE 515 Graduate Seminar  
FWCE 450 Tropical Field Ecology (4 classes in Belize)  
WLSC 440/545 Habitat Management  
WLSC 450 Ecology and Natural History of the Great Plains  
WLSC 455/545 Systems Ecology in Wildlife Management  
WLSC 356 Field Techniques

### **Service and Professional Affiliations**

#### **Leadership**

ADVANCING Leaders – 2005-2006 Academic Year  
ADVANCE Faculty Development Committee 2009-2013  
ADVANCE Faculty Mentor 2005 – present  
USDA E. (Kika) de la Garza Fellowship, Washington, DC  
• Competitive fellowship (2007). Leadership training with the USDA in Washington DC  
NMSU, Plan to Plan Committee 2006  
ACES Action Team  
ACES – College Strategic Planning

#### **Committees (University, College, Departmental)**

2016 - 2019 NMSU, Westhafer Award Committee, ACES Representative  
2006 - 2024 FWCE, Promotion and Tenure Committee (Current Chair)  
2015 - 2023 FWCE, Recruitment and Careers Committee (Current Chair)  
2015 - 2019 NMSU, Alliance for Minority Participation (AMP) Advisory Committee

2015 - 2020	FWCE, Scholarship Committee
2017	NMSU, Regents Selection Committee
2017	NMSU, Search Committee, Vice President for Research
2016 – 2019	NMSU, University Research Council (URC), ACES Representative
2024-Present	
2016	ACES, Search Committee, Dean College of Agricultural, Consumer and Environmental Sciences
2013-2014	NMSU, International enrollment management committee
2012	FWCE, Search Committee, FWCE USGS Coop Unit Position
2011	ACES, Search Committee, Associate Dean and Director of the Agricultural Research Station
2006	NMSU, NSF funded Advancing Leaders Program
2006 - 2012	ACES, Chihuahuan Desert Rangeland Research Center Steering Committee.
2006 - 2010	NMSU, New Mexico Higher Education Department - Articulation Taskforce Discipline Review Team Member (chair 2009)
2007	NMSU, Plan to Plan Committee
2004	FWCE, Faculty Search Committee, Aquatic Ecology
2004	NMSU, Search Committee Member, Department of Biology, Faculty Position, Systems Ecology
2004-2009	ACES, Scholarship Committee (Committee Chair 2005-2006)
2002-2010	FWCE, Course of Study Committee (Chair 2003-2005)
2001-2005	FWCE Facilities Committee
2001	FWCE, Faculty Search Committee, Terrestrial Ecology
2001	FWCE, Faculty Search Committee, Aquatic Ecology
2000	FWCE, Faculty Search Committee, USGS Coop Unit Position
1999-2010	FWCE, Advisor – Student Chapter of the Wildlife Society
1999-2001	FWCE, Graduate Studies Committee (Chair 2001)
2003-2005	ACES, Advisement Committee

### **Professional Societies**

The Wildlife Society - National and New Mexico Chapters

- International working group (Secretary 2006-008, Chair 2008-2012)
- Gender and Ethnic Diversity working group

New Mexico Ornithological Society

- Board Member

American Ornithologists Union

Cooper Ornithologists Union

Raptor Research Foundation