

Mieke Titulaer  
*Curriculum Vitae*  
Last updated: 07/28/2020

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## MIEKE TITULAER

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**Date of Birth** 2 December 1983

**Nationality** Dutch

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## EDUCATION

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**Ph. D. in Natural Resource Management.** Universidad Autónoma de Chihuahua, México. 2015. *Mención Especial*.

Dissertation: Seed selection and winter diet of grassland birds in northern Mexico.

**Master of Animal Sciences (M.Sc.).** Wageningen University, the Netherlands. 2010. *Cum Laude*.

Major thesis: Personality and learning ability in the great tit (*Parus major*). Netherlands Institute of Ecology (NIOO-KNAW).

Minor thesis: Welfare, emotional state and cognition of shelter dogs. Animal Behaviour and Welfare group, Bristol University, UK.

**Bachelor of Science in Animal Management (B.Sc.).** University of Applied Sciences Van Hall Larenstein, Leeuwarden, the Netherlands. 2008.

Major: Wildlife Management.

Thesis: Social aspects of nature conservation and attitudes towards wildlife in the Manavhela community, South Africa.

**Bachelor of Science in Psychology (B.Sc.).** Radboud University Nijmegen, the Netherlands. 2005. Major: Cultural and Personality Psychology.

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## PROFESSIONAL EXPERIENCE

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**Borderlands Research Institute, Sul Ross State University,** Alpine, Texas.

*Research Scientist.* Full time: September 2017 – August 2018, Half time: September 2018 – present.

Leader of the songbird research and outreach program.

Courses: Natural Resource Conservation (online course).

**Universidad Autónoma de Chihuahua, Facultad de Zootecnia y Ecología.**

*Profesor Medio Tiempo.* December 2019 – present. Sistema Nacional de Investigadores (SNI) Nivel I (January 2020- December 2022).

*Lecturer.* January – June 2017, September 2018 – present.

Courses: Statistics, Sampling Techniques, Advanced Sampling, Monitoring of Wildlife Populations (online course).

**Netherlands Institute of Ecology (NIOO-KNAW), Department of Animal Ecology.**

*Graduate Researcher*. October 2010 – October 2011.

Project: The effects of artificial light on survival and reproduction of great tits (*Parus major*)

## **PUBLICATIONS** (\* indicates graduate students)

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### **Peer-reviewed journals**

**Titulaer, M.**, A. Melgoza-Castillo, A. Macías-Duarte, and A. O. Panjabi. 2018. Seed size, bill volume and handling time influence preferences for native and non-native grass seeds in three declining sparrows. *Wilson Journal of Ornithology*, 130: 445-456.

**Titulaer, M.**, A. Melgoza-Castillo, F. A. Rodriguez-Almeida, and J. A. Fernández. 2018. Importance of seed characteristics in diet preferences of granivorous birds: A pilot study with House Sparrows. *Interciencia*, 43: 511-515.

**Titulaer, M.**, A. Melgoza-Castillo, A. O. Panjabi, A. Sánchez-Flores, J. H. Martínez-Guerrero, A. Macías-Duarte, and J. A. Fernández-Fernández. 2017. Molecular analysis of stomach contents reveals important grass seeds in the winter diet of Baird's and Grasshopper sparrows, two declining grassland bird species. *PLOS ONE*, 12: e0189695.

**Titulaer, M.**, E. J. Blackwell, M. Mendl, and R. A. Casey. 2013. Cross sectional study comparing behavioural, cognitive and physiological indicators of welfare between short and long term kennelled domestic dogs. *Applied Animal Behaviour Science*, 147: 149-158.

**Titulaer, M.**, K. Spoelstra, C. Y. M. J. G. Lange, and M. E. Visser. 2012. Activity patterns during food provisioning are affected by artificial light in free living great tits (*Parus major*). *PLOS ONE*, 7: e37377.

**Titulaer, M.**, K. van Oers, and M. Naguib. 2012. Personality affects learning performance in difficult tasks in a sex-dependent way. *Animal Behaviour*, 83: 723-730.

### **In Preparation**

Perez-Ordoñez, D. J\*, **M. Titulaer**, F. Baeza-Tarin\*, M. Correll, E. H. Strasser, R. Martin, L. A. Harveson. Temperature drives winter survival of Baird's and Grasshopper sparrows in the Marfa grasslands, Texas. *Avian Conservation and Ecology*. *In prep.*

Strasser, E. H., **M. Titulaer**, I. Ruvalcaba-Ortega, A. Macías-Duarte, A. Ruiz-Gutierrez, A. O. Panjabi, R. Canales. Movement patterns of grassland birds on the wintering grounds. *Behavioral Biology*. *In prep.*

Baeza-Tarin, F.\*, **M. Titulaer**, D. J. Perez-Ordoñez\*, C. E. Gonzalez, E. Strasser, and L. A. Harveson. Habitat relationships of Baird's and Grasshopper sparrows in the Marfa grasslands, Texas. *Avian Biology*. *In prep.*

Baeza-Tarin, F.\*, **M. Titulaer**, C. E. Gonzalez, E. Strasser, and L. A. Harveson. Using remote sensing imagery to assess accuracy of visual vegetation surveys for grassland birds. *Avian Biology*. *In prep.*

Chavez-Treviño, A.\*, **M. Titulaer**, C. E. Gonzalez, M. Correll, and L. A. Harveson. Grassland bird population response to shrub removal treatment during the wintering season in West Texas. *Avian Biology*. *In prep.*

**Titulaer, M.**, A. Melgoza-Castillo, J. Gonzalez-Villalba, and A. O. Panjabi. Soil seed bank resources affect wintering grassland bird populations in northern Mexico. *Southwestern Naturalist*. *In prep.*

### **Popular Articles**

**Titulaer, M.**, and D. J. Perez-Ordoñez\*. 2018., Borderlands News: Wintering Grassland Birds in West Texas. *Texas Wildlife Magazine*, March 2018.

### **CONFERENCE PRESENTATIONS (\* indicates graduate students)**

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**Titulaer, M.**, D. J. Pérez-Ordoñez\*, F. Baeza-Tarín\*, E. H. Strasser, R. Martin, and L. Harveson. 2019. Supervivencia invernal de gorriones de Baird y Chapulín en los pasitzales de Marfa, Texas. IX Congreso Internacional de Manejo de Pastizales, October 17-18, Chihuahua, Chihuahua, México.

**Titulaer, M.**, D. J. Pérez-Ordoñez, F. Baeza-Tarín, E. H. Strasser, R. Martin, and L. Harveson. 2019. Supervivencia y ecología invernal de gorriones de Baird y Chapulín en los pastizales de Marfa, Texas. XVII Congreso para el Estudio y Conservación de las Aves, September 2-6, Mérida, Yucatán, México.

Pérez-Ordoñez, D. J.\*, **M. Titulaer**, L. Harveson, M Correll, R. Martin. 2019. Supervivencia invernal y selección de hábitat de los gorriones Baird y chapulín en los pastizales de Marfa, Texas. 66th meeting of the Southwestern Association of Naturalists, April 11-14, Chihuahua, Chihuahua, México.

**Titulaer, M.** and D. J. Perez-Ordoñez\*. Baird's and Grasshopper sparrows of the Chihuahuan Desert. 2018. Texas Ornithological Society Meeting, Mayo 4, Alpine, Texas. Invited speaker.

Perez-Ordoñez, D. J.\*, **M. Titulaer**, F. Baeza-Tarín\*, E. H. Strasser, R. Martin, and L. A. Harveson. 2018. Home range and habitat use of Baird's and Grasshopper sparrows in the Marfa grasslands, Texas. American Ornithology Meeting. April 10-14, Tucson, Arizona.

Perez-Ordoñez, D. J.\*, **M. Titulaer**, E. H. Strasser, R. Martin, and L. A. Harveson. 2017. Home range and habitat use of Baird's and Grasshopper sparrows in the Marfa grasslands. America's Grassland Conference. November 14-16, Fort Worth, Texas.

**Titulaer, M.**, A. Melgoza Castillo, A. Macías Duarte, A. O. Panjabi, and A. Sanchez Flores. 2016. Seed selection and winter diet of Baird's Sparrow (*Ammodramus bairdii*) and Grasshopper Sparrow (*A. savannarum*) in the Chihuahuan Desert of northern Mexico. North American Ornithology Conference 2016, Agosto 16-10, Washington DC.

**Titulaer, M.**, A. Melgoza Castillo, A. Macías Duarte, and A. O. Panjabi. 2015. Aves de pastizal pueden comer semillas introducidas? Preferencias de semillas de tres gorriones en disminución. VI Congreso Internacional de Manejo de Pastizales. September 23-25. Durango, Durango, México.

**Titulaer, M.** and A. Melgoza Castillo. 2014. Preferencias en el consumo de semillas de zacates nativos e introducidos por gorriones de pastizal. V Congreso Internacional de Manejo de Pastizales, September 24-26, Nuevo Vallarta, Nayarit, México.

**Titulaer, M.** and A. Melgoza Castillo. 2013. Selección de semillas por *Passer domesticus*. IV Congreso Internacional de Manejo de Pastizales, September 3-6, Colegio de Posgraduados, Montecillo, Estado de México, México.

Spoelstra, K., R. van Grunsven, **M. Titulaer**, K. van Geffen, M. de Jong, M. Donners, F. Berendse, E. Veenendaal y M. Visser. 2012. Experimental illumination of a terrestrial ecosystem: Effects at the population and individual level. 97<sup>th</sup> ESA Annual Meeting, Portland.

Van Geffen, K., **M. Titulaer**, R. van Grunsven, K. Spoelstra, M. Visser, E. Veenendaal, and F. Berendse. 2011. Shining light on darkness: Impacts of artificial night lighting on flora and fauna in the Netherlands. Netherlands Annual Ecology Meeting, February 8-9, Lunteren, the Netherlands.

**Titulaer, M.**, K. van Oers, and M. Naguib, 2010. Personality affects learning performance in the great tit (*Parus major*). Annual Meeting of the Netherlands Society for Behavioural Biology, November 24-26, Soesterberg, the Netherlands.

**Titulaer, M.**, K. van Oers, and M. Naguib., 2010. Effects of personality on learning performance in great tits. Annual meeting of the Association for the Study of Animal Behaviour, May 7-9 2010, Exeter, UK.

## **EDUCATION AND OUTREACH**

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Speaker at the IV Foro Estatal de Aves. Facultad de Zootecnia y Ecología, Universidad Autónoma de Chihuahua. 8 May 2014.

Marfa Public Radio, Nature Notes. Pulse of the Desert Plains: Tracking Grassland Birds on the Marfa Plateau. 15 February 2018. <http://marfapublicradio.org/blog/nature-notes/pulse-of-the-desert-plains-tracking-grassland-birds-on-the-marfa-plateau/>

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Speaker at habitat restoration workshop. Rio Grande Joint Venture. Marfa, Texas, 24 April 2018.

Grassland bird workshop leader. Hosted by Ballroom Marfa, Marfa, Texas. 5 August 2018.

Grassland bird workshop leader. Hosted by Tierra Grande Chapter of the Texas Master Naturalists. Marfa, Texas. 10 November 2018.

Grassland bird workshop leader. Hosted by the Chinati Foundation, Marfa, Texas. 1 December 2018.

Workshop leader “Introduction to R programming language”. 66<sup>th</sup> meeting of the Southwestern Association of Naturalists, Chihuahua, Chihuahua. 13 April 2019.

Texas Parks & Wildlife. TV show: “Searching for Desert Sparrows”. 9 February 2020.  
[https://www.youtube.com/watch?v=LYGHA7z5Ds8&feature=share&fbclid=IwAR051X8xKjf\\_e9BSD5bcdYB\\_wfTdYD4RGRjakGo9TQ7vg\\_-CadOUlf0a6y8](https://www.youtube.com/watch?v=LYGHA7z5Ds8&feature=share&fbclid=IwAR051X8xKjf_e9BSD5bcdYB_wfTdYD4RGRjakGo9TQ7vg_-CadOUlf0a6y8)

## GRANTS AND AWARDS

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**T&E Inc. Conservation Award.** 2012.

Project: Winter diet of grassland birds in northern Mexico (\$2,000 USD).

**Bird Conservancy of the Rockies.** 2012-2015. Project: Winter diet of grassland birds in northern Mexico (\$16,766 USD). PI

**North American Ornithology Conference, Latin American Caribbean Travel Award.** 2016. (\$1,000 USD).

**Texas Parks and Wildlife Department (TPWD).** 2016-2019. Project: Habitat relationships of grassland birds in the Chihuahuan Desert (\$267,376 USD). Co-PI.

**Texas Ornithological Society.** 2018. Project: Winter survival and habitat use of Baird’s and Grasshopper sparrows in the Marfa grasslands of Texas (\$6,000 USD).

**Fort Worth Audubon Society.** 2019. Project: Habitat relationships of grassland birds in the Chihuahuan Desert (\$1,145 USD).

**National Fish and Wildlife Foundation (NFWF) Pecos Watershed Conservation Initiative.** 2018-present. Project: Marfa and Marathon Grassland Enhancement (\$500,000 USD).

## PROFICIENCIES

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**Software:** Microsoft Windows and Linux Ubuntu operating systems, Microsoft Office Suite, Program R, R Studio, SAS, SPSS, ArcGIS, QGIS, The Observer XT (Noldus ®).

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**Languages:** Dutch, English, Spanish.

**Certificates:** Trinity College London, Graded Examination in Spoken English, Grade 12. 2016.

## REFERENCES

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Sul Ross State University  
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