

Mariëlle L. van Toor

Education

- 05/2012–11/2016 **PhD student (summa cum laude)**, *Max Planck Institute for Ornithology & International Max Planck Research School for Organismal Biology*, Radolfzell, Germany.
- 10/2009–11/2011 **M.Sc. Biological Sciences (with distinction)**, *University of Konstanz*, Konstanz, Germany.
- 11/2006–06/2009 **B.Sc. Biological Sciences**, *University of Konstanz*, Konstanz, Germany.

Professional history

- 03/2017– **PostDoc**, *Linnaeus University*, Kalmar, Sweden.
- 01/2017–02/2017 **PostDoc**, *Max Planck Institute for Ornithology*, Radolfzell, Germany.

Peer-reviewed publications

- Ahlstrom, C.A., **van Toor, M.L.**, Woksepp, H., Chandler, J.C., Reed, J.A., Reeves, A.B., Waldenström, J., Franklin, A.B., Douglas, D.C., Bonnedahl, J., & Ramey, A. (2020) Evidence for continental-scale dispersal of antimicrobial resistant bacteria by landfill-foraging gulls. *Science of the Total Environment*, e144551
- van Toor, M.L.**, O'Mara, M.T., Abedy-Lartey, M., Wikelski, M., Fahr, J., & Dechmann, D.K.N. (2019). Linking colony size with quantitative estimates of ecosystem services of African fruit bats. *Current Biology*, 29 (7), 237–238.
- Kleyheeg, E., Fiedler, W., Safi, K., Waldenström, J., Wikelski, M., & **van Toor, M.L.** (2019). A comprehensive model for the quantitative estimation of seed dispersal by migratory mallards. *Frontiers in Ecology & Evolution*, 7, 40.
- Tucker, M. A., Alexandrou, O., Bierregaard Jr, R. O., Bildstein, K. L., *et al.* (in press). Large birds travel farther in homogeneous environments. *Global Ecology and Biogeography*.
- van Toor, M.L.**, Avril, A., Wu, G., Holan, S., & Waldenström, J. (2018) As the duck flies - Estimating the dispersal of low-pathogenic avian influenza viruses by migrating mallards. *Frontiers in Ecology & Evolution*, 6, 208.
- van Toor, M.L.**, Kranstauber, B., Newman, S.H., Prosser, D.J., Takekawa J.Y., Technitis, G., Weibel, R., Wikelski, M. & Safi, K. (2018) Integrating animal movement with habitat suitability for estimating dynamic migratory connectivity. *Land-scape Ecology*, 33 (6), 879–893.
- Sztukowski, L.A., **van Toor, M.L.**, Weimerskirch, H., Thompson, D.R., Torres, L.G., Sagar, P.M., Cotton, P.A. & Votier, S.C. (2017) Tracking reveals limited interactions between Campbell Albatross and fisheries during the breeding season. *Journal of Ornithology*, 158 (3), 725–735.

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1/4

van Toor, M.L., Arriero, E., Holland, R.A., Huttunen, M.J., Juvaste, R., Müller, I., Thorup, K., Wikelski, M. & Safi, K. (2017) Flexibility of habitat use in novel environments: Insights from a translocation experiment with Lesser Black-backed Gulls. *Royal Society Open Science*, 4, 160164.

van Toor, M.L., Newman, S.H., Takekawa J.Y., Wegmann, M. & Safi, K. (2016) Temporal segmentation of animal trajectories informed by habitat use. *Ecosphere*, 7(10), e01498.

van Toor, M.L., Hedenström, A., Waldenström, J., Fiedler, W., Holland, R.A., Thorup, K. & Wikelski, M. (2013). Flexibility of continental navigation and migration in European mallards. *PLoS one*, 8(8), e72629.

van Toor, M.L., Jaberg, C. & Safi, K. (2011). Integrating sex-specific habitat use for conservation using habitat suitability models. *Animal Conservation*, 14(5), 512–520.

Presentations & invited talks

van Toor, M.L., Arzel, C., Cottaar, F., Dagys, M., Fielder, W., Hedenström, A., Kharitonov, S., Kleyheeg, E., Kuiken, T., Muskens, G., Ottosson, U., Safi, K., Švažas, S. van der Jeugd, H., Wikelski, M., Žydelis, R., Åkesson, S., & Waldenström, J. (2019) The hitchhiker's guide to migration of Eurasian wigeons. Oral Presentation: European Ornithologist's Union 2019, Cluj-Napoca, Romania.

van Toor, M.L., Avril, A., Wu, G., Holan, S. & Waldenström, J. (2018) As the duck flies - Estimating the dispersal of low-pathogenic avian influenza viruses by migrating mallards. Oral Presentation: 10th International Symposium on Avian Influenza, Brighton, United Kingdom.

van Toor, M.L. (2017) Integrating conditional movement models with environmental data for quantitative null models in movement ecology. Oral Presentation: 6th International Bio-Logging Science Symposium, Konstanz, Germany.

van Toor, M.L., Fiedler, W., Kraus, R.H.S, Müller, I., Wikelski, M., Safi, K. (2017). Linking waterbird connectivity networks with the geographic spread of avian influenza A virus. Oral Presentation: Epidemiology meets Ecology, Kalmar, Sweden.

van Toor, M.L. (2015). The hitchhiker's guide to waterbird migration: Linking the spread of avian influenza virus to dynamic suitability landscapes of waterbirds. Oral Presentation: AniMove Symposium 2015, Radolfzell, Germany.

van Toor, M.L. (2015). Realised niches in a changing world: Temporal segmentation of animal trajectories by habitat use. Oral Presentation: GFOe Annual Meeting 2015, Goettingen, Germany.

van Toor, M.L. (2015). Space, time, habitat: The temporal dynamics of species-environment interactions. Oral presentation at the Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, UK.

van Toor, M.L. (2013). The (re-) invention of bird migration: How birds turn into numbers, and numbers into birds. Oral Presentation: Annual meeting of the German Ornithological Society (D-OG), Regensburg, Germany.

van Toor, M.L., Jaberg, C., & Safi, K. (2011). Sex-specific habitat use of parti-coloured bats and the consequences for conservation. Oral presentation: Swiss National Bat Meeting, Bern, Switzerland.

van Toor, M.L., Waldenström, J., Fiedler, W., Hedenström, A., Holland, R., & Wikelski, M. (2010). A test on the Perdeck Paradigm does not support an innate "clock and compass" in ducks. Oral presentation: 25th International Ornithological Congress, Campos do Jordão, SP, Brazil.

Research grants and awards

- 2019 **Research grant (as co-applicant)**, *Avian influenza in Bangladesh: the role of migratory birds in the transmission of disease*, (3,467,632 SEK), 2019-2022.
Development research grant awarded by the Swedish Research Council (VR)
- 2012 **PhD studentship**, *International Max Planck Research School for Organismal Biology*.
Awarded membership based on competitive audition.
- 2006 **Scheffel-Award**, *Literary Society Karlsruhe*.
Award for the best accomplishments in German Language & Literature in the final exams of secondary schools in Germany.

Teaching activities and student supervision

- 2020–2021 **Supervisor**, *Project work in the Aquatic Ecology Master program, Linnaeus University*, 60 credits.
- 2020 **Supervisor**, *Two external internships at Master level, Angers University*, 8 weeks each.
- 2020 **Supervisor**, *Project course in the Aquatic Ecology Master program, Linnaeus University*, 32 hours.
- 2019 **Supervisor**, *Project course in the Aquatic Ecology Master program, Linnaeus University*, 32 hours.
- 2019 **Supervisor**, *Project course at undergraduate level, Linnaeus University*, 12 hours.
- 2017 **Co-Instructor**, *Short course on analyzing animal tracking data*, Museum of Natural Sciences, Raleigh, North Carolina, USA, 2 days.
- 2013 **Master thesis supervision**, *Migration ecology of swan geese (together with Kamran Safi & Martin Wegmann)*, University of Bayreuth & Max Planck Institute for Ornithology, 8 months.
- 2016 **Co-Instructor**, *Movement Ecology: Determining the Environmental Drivers of Movement (course 90890)*, Hebrew University of Jerusalem, Israel, 1 week.
- 2014 **Teaching assistant**, *2 R-Courses*, University of Konstanz, Germany, 2 weeks.
- 2013 **Teaching assistant**, *AniMove - Applied Animal Movement and Remote Sensing Science School*, Max Planck Institute for Ornithology, Germany, 2 weeks.
- 2013 **Teaching assistant**, *2 R-Courses*, University of Konstanz, Germany, 2 weeks.

Public outreach

- 2020 **Science outreach at Hovmantorp skola.**
- 2017 **Popular science lecture**, *Watching animals from space: understanding behaviour & ecology through biologging, remote sensing, and movement models*. Linnæus University, Kalmar, Sweden (<http://bit.ly/2EPSpgW>).
- 2013–2016 **KonScience Podcast**, *Co-host of a science podcast. Episodes consist of scientific news, interviews, lectures, and discussions (<http://konscience.de>). Thirtytwo episodes have been published to date, with a total duration of > 44h.*
- 2015 **Kid's University lecture**, *van Toor, M.L. & Kraus, R. (2015). Duck Tales: Stories from the life of a duck. Presentation at the Kid's University Tuttlingen, Germany.*

Reviewing activities

- 2013–2019 **Referee for international journals**, (*Agronomy for Sustainable Development, Biological Conservation, Bulletin of Marine Science, Conservation Physiology, Diversity and Distributions, Ecography, Ecological Applications, Ecological Monographs, Ecology, Journal of Raptor Research, Landscape Ecology, Methods in Ecology and Evolution, Molecular Ecology, Movement Ecology, Ornis Svecica, PLoS ONE, Scientific Reports, Wildlife Society Bulletin*).