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Born: Haarlem, The Netherlands
Nationality: Dutch

Current positions

Postdoctoral researcher, Netherlands Institute of Ecology, Wageningen, The Netherlands

Visiting scientist, Computational Geo-Ecology, University of Amsterdam, Amsterdam

Areas of specialisation

Ecology, Animal Behaviour, Radar Ornithology, Physics

Appointments held

- 2012-current Postdoctoral researcher, Netherlands Institute of Ecology (NIOO-KNAW)
Studying individual migration and energetics of migratory Brent Geese by combination of field observations and individual tracking data, to understand the role of endangered seagrass ecosystems in their annual cycle.
- 2013-current Visiting scientist, University of Amsterdam, Computational Geo-Ecology, Institute for Biodiversity and Ecosystem Dynamics (IBED)
Studying twilight flight behaviour and sleep in Common Swifts.
- 2010-2013 Postdoctoral researcher, University of Amsterdam, Computational Geo-Ecology, Institute for Biodiversity and Ecosystem Dynamics (IBED)
Studying nocturnal flight behaviour of migratory passerines. Individual-based modelling of Oystercatchers of dynamic habitat selection by Oystercatchers as measured with GPS loggers. Developing statistical approaches capable of combining the strengths of mechanistic and purely statistical animal distribution models.
- 2008-2010 Postdoctoral researcher, Royal Netherlands Meteorological Institute (KNMI)
Developing an automated retrieval algorithm of bird migration information from weather radars. Using weather radar to study nocturnal flight behaviour of migratory passerines.
- 2003-2008 Institute of Atomic and Molecular Physics (AMOLF), Amsterdam

PhD thesis on the effect of biological nano-confinement on the dynamics of water molecules

Education

- 2008 PhD in Physics, Institute for Atomic and Molecular Physics
2003 MSc in Physics, Leiden University

Fellowships

- 2003 Princeton University Scholarship (12 months), Leiden/Princeton University, Netherlands/United States of America

Supervision of master and graduate students

- 2010-2013 2 Master Students, co-supervision 1 PhD-student
Institute of Biodiversity and Ecosystem Dynamics, University of Amsterdam, The Netherlands
- 2013-2015 4 Master Students, co-supervision 2 PhD-students
Department of Animal Ecology, Netherlands Institute of Ecology, The Netherlands

Other academic activities

- 2014-current Working Group Leader 'Classification and retrieval of biological data from European weather radars' in Research Network ENRAM, European Network for the Radar surveillance of Animal Migration. <http://www.enram.eu>
- 2014-current Editor of scientific journal Ardea, Journal of the Netherlands Ornithologist Union. <http://ardea.nou.nu>
- 2001-current Board member of bird ringing station 'Amsterdamse Waterleiding Duinen', The Netherlands

Publications

JOURNAL ARTICLES

- 2014 J. Shamoun-Baranes, J. A. Alves, S. Bauer, A.M. Dokter, O. Hüppop, J. Koistinen, H. Leijnse, F. Liechti, H. van Gasteren, J.W. Chapman (2014). Continental-scale radar monitoring of the aerial movements of animals. *Movement Ecology*, 2(1), 9.
- 2014 J.D. McLaren, J. Shamoun-Baranes, A.M. Dokter, R.H. Klaassen, W. Bouten, (2014). Optimal orientation in flows: providing a benchmark for animal movement strategies. *Journal of The Royal Society Interface*, 11(99), 20140588
- 2014 Year-round itinerary of a GPS-tracked Brent Goose *Branta b. bernicla* that visited the Bassin d'Arcachon, France. A.M. Dokter, B.S. Ebbinge *Wildfowl* special issue 3: 135-141 (2013)
- 2013 The influence of weather on altitude selection by nocturnal migrants in mid-latitudes. M.U. Kemp, J. Shamoun-Baranes, A.M. Dokter, E.E. van Loon, W. Bouten *Ibis* 155 (2013)
- 2013 Bird Radar Validation in the Field by Time-Referencing Line-Transect Surveys. A.M. Dokter, M.J. Baptist, B.J. Ens, K.L. Krijgsveld, E.E. van Loon, *PLoS ONE* 8, e74129 (2013)
- 2013 Twilight ascents by common swifts, *Apus apus*, at dawn and dusk: acquisition of orientation cues? A.M. Dokter, S. Åkesson, Hans Beekhuis, Willem Bouten, Luit Buurma, Hans van Gasteren, Iwan Holleman, *Animal Behaviour* 85, 545-552 (2013)
- 2013 High Altitude Bird Migration at Temperate Latitudes: A Synoptic Perspective on Wind Assistance. A.M. Dokter, J. Shamoun-Baranes, M.U. Kemp, S. Tijm, I. Holleman, *PLoS ONE* 8(1): e52300 (2013)
- 2012 M.U. Kemp, J. Shamoun-Baranes, E.E. van Loon, J.D. McLaren, A.M. Dokter, W. Bouten Quantifying flow-assistance and implications for movement research. *Journal*

of Theoretical Biology 308: 56–67 (2012)

- 2011 J. Shamoun-Baranes, A.M. Dokter, H. van Gasteren, E.E. van Loon, H. Leijnse and W. Bouten. Birds flee en mass from New Year's Eve fireworks. (2011) *Behavioural Ecology*, 22, 1173–1177
- 2011 A.M. Dokter, F. Liechti, H. Stark, L. Delobbe, P. Tabary, I. Holleman. Bird migration flight altitudes studied by a network of operational weather radars. *J. R. Soc. Interface*, 8, 30–43 (2011)
- 2008 A.M. Dokter, C. Petersen, S. Woutersen, H.J. Bakker Vibrational dynamics of ice in reverse micelles, *Journal of Chemical Physics* 128, 044509 (2008)
- 2008 A.M. Dokter, H.J. Bakker, Transient absorption of vibrationally excited ice Ih, *Journal of Chemical Physics* 128, 024502 (2008).
- 2007 A.M. Dokter, S. Woutersen, H.J. Bakker, Ultrafast dynamics of water in cationic reverse micelles, *Journal of Chemical Physics* 126, 124507 (2007).
- 2006 A.M. Dokter, S. Woutersen, H.J. Bakker, Inhomogeneous dynamics in confined water nanodroplets, *Proceedings Of The National Academy Of Sciences Of The United States Of America* 103 (42), 15355–15358 (2006).
- 2005 A.M. Dokter, S. Woutersen, H.J. Bakker, Anomalous slowing down of the vibrational relaxation of liquid water upon nanoscale confinement, *Physical Review Letters* 94 (17), 178301 (2005)
- 2004 R. Schmied, P. Carcabal, A.M. Dokter, V.P.A. Lonij, K.K. Lehmann, L.G. Scoles, UV spectra of benzene isotopomers and dimers in helium nanodroplets, *Journal Of Chemical Physics* 121 (6): 2701–2710 (2004)
- 2004 K.K. Lehmann, A.M. Dokter, Evaporative cooling of helium nanodroplets with angular momentum conservation, *Physical Review Letters* 92 (17): 173401 (2004)
- 2002 A.M. Dokter, M.C. van Hemert, C.M. In 't Velt, K. van der Hoef, J. Lugtenburg, H.A. Frank, E.J.J. Groenen, Resonance Raman spectrum of all-trans-spheroidene. DFT analysis and isotope labeling. *Journal Of Physical Chemistry A* 106 (41): 9463–9469 (2002)

PHD THESIS

- 2008 Dokter, A.M. Water in confinement: ultrafast dynamics of water in reverse micelles, Institute for Atomic and Molecular Physics AMOLF / University of Amsterdam, 142 p., 2008

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