

CURRICULUM VITAE | DIEDERIK STRUBBE

1. PERSONAL INFO

First name: Diederik, Ferdinand Rohan
Surname: Strubbe
Place of birth: Bruges
Date of Birth: 25-10-1981
ORCID: 0000-0002-2613-4985
Address (work): K.L Ledeganckstraat 35, 9000 Gent, Belgium
Phone: +32 (0) 477 44 55 68
E-mail: diederik.strubbe@ugent.be
Google Scholar: [Google Scholar profile](#)
Website: www.diederikstrubbe.com

2. EDUCATION AND POSITIONS

- 2018 – current **Doctor-Assistant**, Terrestrial Ecology Unit, Dept. of Biology, Ghent University.
- 2016 – 2018 **Marie Skłodowska-Curie Fellow**, Center for Macroecology, Evolution and Climate, University of Copenhagen, Copenhagen, Denmark.
- 2015 – 2016 **Post-doctoral Researcher**, Terrestrial Ecology Unit, Dept. of Biology, Ghent University.
- 2013 – 2014 **Post-doctoral Researcher**, Evolutionary Ecology Group, Dept. of Biology, University of Antwerp, Belgium.
- 2010 – 2013 **Post-doctoral Fellow**, Evolutionary Ecology Group, Dept. of Biology, University of Antwerp, Belgium.
- 2010 – 2010 **Research Associate**, Research Institute for Nature and Forest, Brussels, Belgium.
- 2005 – 2009 **Doctor in Sciences (Biology)**. PhD dissertation: ‘Invasive ring-necked parakeets *Psittacula krameri* in Europe: invasion success, habitat selection and impact on native bird species.’ Promotor: Prof. Dr. Erik Matthysen, Evolutionary Ecology Group, University of Antwerp. Includes 1 year (2008-2009) Belgian American Educational Foundation (BAEF) Fellowship with Prof. Dr. Catherine Graham at Stony Brook University, New York. PhD obtained: 29 November 2009.
- 2002 – 2004 **Master in Biology (Environment)**. Dissertation: ‘Invasion of ring-necked parakeets *Psittacula krameri* in Belgium: habitat selection and impact on native species’. Promotor: Prof. Dr. Erik Matthysen, Evolutionary Ecology Group, University of Antwerp. Date obtained: 09 July 2004.
- 1999– 2002 **Bachelor in Biology** Ghent University. Date obtained: 03 July 2002

3. TEACHING RESPONSABILITIES

2018-current	<i>Ghent University, Belgium</i> Behavioral Ecology (Master course, responsible teacher) Ornithology (Master course, co-responsible teacher) Laboratory Animal Sciences (Master course, co-responsible teacher) Terrestrial Ecology (Bachelor course, contributor) Ecology (Bachelor course, co-responsible teacher) Population Ecology (Bachelor course, co-responsible teacher) Biological excursions (Bachelor course, contributor)
2016 – 2021	<i>University of Copenhagen, Denmark</i> Teacher at the Center for Macroecology, Evolution and Climate's 4.5 ECTS International PhD Course: Modelling species distributions under climate change
2016 – 2018	<i>University of Copenhagen, Denmark</i> Biological Invasions (Master course, contributor)
2010 – 2015	<i>University of Antwerp, Belgium</i> Conservation Biogeography (Master course, contributor) Ornithology (Master course, contributor)
2005 – 2009	<i>University of Antwerp, Belgium</i> Population Biology (Bachelor course, contributor) Animal morphology (Bachelor course, contributor)

4. STUDENT SUPERVISION

To date, I supervise/have supervised 15 master students, 10 bachelor students, 7 PhD students (5 ongoing, 2 successfully defended) and one postdoc.

PhD student supervision (promotor)

2021 – 2024	<i>Marina Sentis</i> , Understanding species' invasions: a mechanistic view of the invasion success of the common waxbill (<i>Estrilda astrild</i>), a prolific avian invader. [with Prof. Dr. Luc Lens]
2021 – 2025	<i>Bram Catfolis</i> , Forest biodiversity and multifunctionality drive chronic stress-mediated dynamics in pathogen reservoirs. [with Prof. Dr. Luc Lens and Prof. Dr. Johan Aerts]
2021 – 2023	<i>Cesare Pacioni</i> , Mechanistic underpinnings of bird distribution ranges: temperature tolerance and energetic constraints. [with Prof. Dr. Luc Lens, international FWO-RSF collaboration with Dr. Bushuev and Dr. Kerimov, Moscow State University]
2020 – 2023	<i>Lior Ventura</i> , Modeling urban species distributions to assess city-wide effects of urban planning. [with Prof. Dr. Assaf Shwartz, Technion University, Israel].

- 2016 – 2021 *Ferehiwot Admassie*, Understanding the interrelation between landscape structure on church forests' resilience, bird ecology and agricultural production in the Eastern Lake Tana basin, Ethiopia. [with Prof. Dr. Luc Lens and Prof. Dr. Bart Muys (KU Leuven)]
- 2015 – 2020 *Daan Dekeukeleire*, Avian food web ecology in fragmented forests. [with Prof. Dr. Luc Lens, defended February 19th 2021]
- 2014 – 2020 *Constance Fastré*, Systematic conservation planning in the high Andes of Bolivia: application of modeling tools for integrative management of natural areas [with Prof. Dr. Erik Matthysen, defended March 9th 2020]

Master and bachelor student supervision (promotor)

2020 – 2021 Master students

Yahya Ghalayini, Does microclimate and spring phenology influence ring-necked parakeet (*Psittacula krameri*) timing of breeding and breeding success?

Fleur Petersen, Does intraspecific niche variation affect the performance of predictive models of species invasion risk?

Tim Claerhout, Conservation of Magnolias from the Dominican Republic.

Bachelor students

Liam De Bosscher and *Thomas Veryser*, Are birds healthier and in a better body condition in more biodiverse forests?

Arno Lapiere: Is there a relation between microclimate and ring-necked parakeet breeding phenology?

Simon Vandepitte: Prediction of the fundamental thermal niche of the common waxbill (*Estrilda astrild*) in Europe using NicheMapper.

2019 – 2020 Master students

Michael Goedertier, A mechanistic view of biological invasions: the common waxbill as a case study

Marie Stessens, Assessing the importance of individual modeling decisions for invasive range forecasting – a case study using the common waxbill.

Laure Van Lauwe, Invasive exotic species and citizen science for secondary schools.

Ananya Agnihotri, Studying variation in the morphological traits of *Estrilda astrild* with climate and environment across Sub-Saharan Africa (via the Erasmus Mundus Joint Master Degree in Tropical Biodiversity and Ecosystems, TROPIMUNDO)

Bachelor students

Bert Van Hecke, Using biophysical characteristics to map the ecological distribution of invasive species.

2018 – 2019 **Bachelor students**

Eline Verhelst, The relationship between corticosterone and fluctuating asymmetry, melanin concentration and color values of feathers.

2017 – 2018 **Master students**

Sydney Cheong, Diet and activity of invasive ring-necked parakeets (*Psittacula krameri*).

2015 – 2016 **Master students**

Hannes Ledegen, Avian diversity in fragmented *Polylepis* woodlands. A study in the Bolivian high-Andes.

Marine Servonnat, The impact of invasive fish species on biodiversity in Lipsi Island, Greece.

Bachelor students

Marianne Dehasque, Possible competition between invasive ring-necked and Alexandrine parakeets and native common noctules: an exploratory investigation.

Anthony Detré, Distribution and habitat preference of monk parakeets (*Myiopsitta monachus*) in Brussels.

2014 – 2015 **Master students**

Alexander Mertens, Patterns and drivers of global non-native bird species richness.

Aline Delcroix, Reproductive success of invasive Egyptian Goose (*Alopochen aegyptiacus*) across a gradient from urban to rural habitats.

Natalia Alcalde-Saez, Niche shifts during biological invasion: a case study on birds.

2013 – 2014 **Master students**

Nelleke Buitendijk, Changes in the behaviour of the Rose-ringed parakeet (*Psittacula krameri*) from mid-winter to early spring.

Bachelor student

Simon Baeckens, Nesting cavity preferences and interspecific competition between invasive ring-necked parakeets (*Psittacula krameri*) and Great Spotted Woodpeckers (*Dendrocopus major*).

2010 – 2011 **Master student**

Stefan Vanbeveren, Distribution of invasive Alexandrine parakeets (*Psittacula eupatria*) in Belgium.

2009 – 2010 **Bachelor student**

Dieter Crauwels, Invasive parakeet populations: habitat and diet choice.

5. ACADEMIC SERVICE

Since my appointment as doctor-assistant in 2018, I serve as a voting member of the Council of the Department of Biology at Ghent University

PhD Committee jury member for

Tinyiko Cavin Shivambu, Aspects of the ecology of invasive rose-ringed parakeets (*Psittacula krameri*) in eThekweni Metropolitan, KwaZulu-Natal Province, South Africa (2021, University of KwaZulu-Natal)

Svana Rogalla, Thermophysiology and the thermal effects of feather coloration (2021, Ghent University)

Alejandro Sotillo, Cost and benefits of alternative foraging strategies in coastal breeding gulls under anthropogenic environmental change (2020, Ghent University)

Marwa Kavelaars, Parental investment in a changing world (2020, Ghent University)

Stefano Masier, Dispersal heterogeneity and eco-evolutionary dynamics in experimental metapopulations (2020, Ghent University)

Lieze Rouffaer, The effect of urbanization on house sparrows (*Passer domesticus*) and their entero-pathogens (2017, Ghent University)

Editor for

The Belgian Journal of Zoology (2014 – current)

Animal Biodiversity and Conservation (2015 – current)

European Journal of Ecology (2015 – current)

Diversity and Distributions (2015 – 2018)

Peer reviewer for

Ibis, Wildlife Biology, Austral Ecology, Biological Invasions, Oikos, Landscape Ecology, PLoS ONE, Biological Conservation, Ecography, Journal of Applied Ecology, Functional Ecology, Journal of Biogeography, Methods in Ecology and Evolution, Diversity and Distributions, Global Ecology and

Biogeography, Global Change Biology, Ecology Letters, Fungal Ecology, Journal of Avian Biology, BioInvasions Records.

[View reviewer profile](#)

6. RESEARCH FUNDING

Project: **Mechanistic underpinnings of bird distribution ranges: temperature tolerance and energetic constraints.**

Role: Project conceptualization, lead writing of the project.

Start and end date: 01/01/2020 – 31/12/2023

Budget: € 254.000 (PhD candidate Cesare Pacioni, 3-year PhD)

Funder: FWO (Bilateral Scientific Research Cooperation Project between FWO and the Russian Science Foundation (RSF)).

Project: **Understanding species' invasions: a mechanistic view on the invasion success of the common waxbill, a prolific avian invader.**

Role: Project conceptualization, lead writing of the PhD proposal, training the PhD candidate (Marina Sentis Vila) for the FWO interview.

Start and end date: 01/11/2020 – 31/10/2024

Budget: FWO PhD awarded to PhD candidate Marina Sentis Vila (4 year).

Funder: FWO

Project: **Forest biodiversity and multifunctionality drive chronic stress-mediated dynamics in pathogen reservoirs.**

Role: Project co-conceptualization, co-lead writing for the avian-centered components of the project (together with Prof Dr Luc Lens), co-PI (with Prof. Dr Kris Verheyen, Prof. Dr. An Martel, Prof. Dr Luc Lens as PI).

Start and end date: 01/01/2020 – 31/12/2025

Budget: Three 4-year PhD students (PhD candidate Bram Catfolis)

Funder: UGent BOF ('GOA')

Project: **TriAS: Tracking Invasive Alien Species: Building a data-driven framework to inform policy**

Role: Project co-conceptualization, lead writing for the work packages on invasive species risk modelling, co-PI with Dr Quentin Groom (Meise Botanic Garden) as project PI.

Start and end date: 17/05/2017-15/09/2021

Budget: € 189.420

Funder: BELSPO

Project: **Marie Skłodowska-Curie Fellow at Center of Macroecology, Ecology and Climate (CMEC, Copenhagen): FREYA: Forecasting Range dYnamics of Alien species under climate change.**

Role: Project conceptualization, lead writing of the project, with Prof Dr Carsten Rahbek as promotor.
Start and end date: 01/06/2016-31/05/2018
Budget: Two year postdoc at CMEC, Copenhagen
Funder: BELSPO

Project: **Explaining the invasion success of non-native species: the role of niche conservatism, genetic variation and facilitative species interactions.**
Role: Project conceptualization, lead writing of the project, with Prof Dr Erik Matthysen as promotor.
Start and end date: 01/10/2010-31/09/2013
Budget: Three year postdoc at Evolutionary Ecology Group, University of Antwerp.
Funder: FWO

Project: **The importance of founder effects and genetic diversity of introduced populations as drivers of invasion success of non-native species.**
Role: Project conceptualization, lead writing of the project.
Start and end date: 01/10/2012-31/09/2013
Budget: € 30.000
Funder: FWO ('krediet aan navorsers')

Project: **Australian Centre of Excellence for Environmental Decisions - Early Career Researcher Grant (CEED - ECR).**
Role: Project conceptualization, lead writing of the project, with Prof Dr Salit Kark (University of Queensland, Australia) as promotor. *Note: grant not taken up because of incompatibility with demands of the 2010-2013 FWO postdoc.*
Start and end date: 01/01/2013-31/06/2013
Budget: € 18.850
Funder: Australian Centre of Excellence for Environmental Decisions (CEED)

Project: **The role of genetic diversity in explaining invasion success of non-native species.**
Role: Project conceptualization, lead writing of the project.
Start and end date: 01/01/2011-31/12/2011
Budget: € 7.500
Funder: UGent BOF ('Kleine Projecten')

Project: **Assessing the potential impact of invasive ring-necked parakeets *Psittacula krameri* on native nuthatches *Sitta europaeae* in Belgium.**
Role: Project conceptualization, lead writing of the project, with Prof. Dr. Catherine Graham (Stony Brook University, New York, USA) as promotor.
Start and end date: 01/10/2008-31/09/2009
Budget: \$ 18.000 (one year PhD)
Funder: Belgian American Educational Foundation (B.A.E.F.), plus an FWO Travel Grant.

Project: Invasion of ring-necked parakeets in Belgium: distribution and impact on native cavity-nesting birds.
Role: Project conceptualization, lead writing of the project.
Start and end date: 01/01/2007-31/12/2007
Budget: \$ 977 (for the purchase of radio-tracking tags)
Funder: ‘Exploration Fund Grant ‘ awarded by The Explorers Club (USA).

Project: Belgian nominee for the Global Biodiversity Information Facility 4th GBIF Ecological Niche Modelling Workshop (Warsaw, Poland).
Role: Lead applicant
Start and end date: 26/11/2007-30/11/2007
Budget: Training, travel costs and stipend.
Funder: Global Biodiversity Information Facility (GBIF)

7. CONGRESSES & RESEARCH MEETINGS

- 2020 28 November, Ede (the Netherlands), SOVON Bird Research Netherlands yearly meeting. Invited oral presentation: “Invasive parakeets in Europe”.
- 2019 8-12 January, Sevilla (Spain), International Biogeographic Society (IBS) Meeting. Oral presentation: “Mechanistic niche approaches allow to explain rather than to predict invasive species range distributions”.
- 4 June, Brussels (Belgium), Navigating Brussels Workshop organized by the ELLS Euroleague for Life Sciences. Invited oral presentation: “Experience of MSCA Fellow from Gent University”
- 26-30 August, Cluj-Napoca (Romania), Babes-Bolyai University. 12th European Ornithological Congress. Symposium organizer: “Invasive Birds in Europe: trends, drivers and impacts.
- 2017 4-7 April, Evora (Portugal), Palácio do Vimioso, University of Portugal. BirdTrade Meeting. Invited oral presentation: Niche shifts during biological invasions – correlations versus mechanisms.
- 2015 14-16 June, Copenhagen (Denmark), Centre for Macroecology, Evolution and Climate. EU Macro 2015 – 1st European Macroecology Conference. Poster presentation: “Invasion success of a global avian invader is explained by within-taxon niche structure and association with humans in the native range.”
- 1-2 June, Vairão (Portugal), CIBIO-InBIO. TIBE 2015|Global Biodiversity Change - From Genes to Ecosystems. Invited Plenary Session: “Species’ range and niche dynamics”.
- 02-03 March, Paris (France), AgroParis Tech. Co-organizer of the “COST Action ES1304 Parakeet risk assessment workshop”.

- 03-05 February, Antwerp (Belgium), University of Antwerp. 8th Symposium on Eco-Evolutionary Dynamics. Oral presentation: “Effects of urbanization on avian community organization”
- 2014 11-12 September, Kent (UK), University of Kent. ParrotNet Systematic Review Workshop. Oral presentation: “An overview of four frameworks: GISS, Harmonia+, DEFRA and the Unified Classification”
- 18-24 August, Tokyo (Japan), Rikkyo University. 26th International Ornithological Congress. Organizer of a Symposium on Non-native birds as natural experiments: ecological and evolutionary change during biological invasions, and oral presentation: “Niche changes during biological invasions: prevalence, drivers and consequences”.
- 27-28 March, Zielona Gora (Poland), Poznan University of Life Sciences. ParrotNet Workshop on Technology for Information Gathering and Dissemination.
- 2013 5 December, Louvain-la-Neuve (Belgium), Université Catholique de Louvain. Invited oral presentation for the Biodiversity Research Centre: “Within-taxon niche structure and the conservation of phylogeographic lineages during biological invasions”
- 19 September, Antwerp (Belgium), University of Antwerp, General Assembly Meeting of the Belgian Wildlife Disease Society. Invited oral presentation: “Ring-necked parakeets: their distribution, population dynamics and impact”.
- 2012 13 December, Nijmegen (Netherlands), Radboud University. Special Meeting of the Dutch-Flemish Society for Ecology (NECOV) titled “What makes non-native species invasive?” Invited oral presentation: “Invasion success of ring-necked parakeets (*Psittacula krameri*) in Europe: the role of climate matching and enemy-release”.
- 2011 28 November, Bern (Switzerland), University of Bern. Invited oral presentation for the seminars of the Institute for Ecology and Evolution: “Invasive ring-necked parakeets *Psittacula krameri* in Europe”.
- 27-30 August, Riga (Latvia), University of Latvia. 8th Conference of the European Ornithologists’ Union. Co-organizer of the Symposium on Non-native Birds, plus oral presentation: “Invasive alien birds in Europe: evidence for climatic niche shifts?”
- 2009 21–26 August, Zurich (Switzerland), University of Zürich. 7th Conference of the European Ornithologists’ Union. Oral presentation: “Assessing the potential impact of invasive species on native biota: a case study on the invasion of ring-necked parakeets in Belgium”.
- 11 May 2009, Brussels (Belgium), Belgian Comic Strip Centre. Second Conference of the Belgian Forum on Invasive Species: Science Facing Aliens. Poster presented: “Assessing the potential impact of invasive species on native biota: a case study on the invasion of ring-necked parakeets in northern Belgium”.

- 2007 9-11 January 2007, Oxford (UK), University of Oxford. Edward Grey Institute of Field Ornithology Student Conference. Oral presentation: “Invasion of ring-necked parakeets (*Psittacula krameri*) in Belgium”
- 7-12 September 2007, Bialowieza (Poland). Hole-breeding Passerines Meeting on Hole using – adaptations and constraints. Oral presentation: “Invasion of ring-necked parakeets *Psittacula krameri* in Belgium: habitat selection and impact on native species”
- 20–26 November 2007, Warschau (Poland). Belgian nominee for the Global Biodiversity Information Facility 4th GBIF Ecological Niche Modelling Workshop.
- 2006 26-28 October 2006, Wageningen (Netherlands), Wageningen University. Benelux Congress of Zoology. Poster presented: “Habitat selection of invasive ring-necked parakeets (*Psittacula krameri*) in Flanders and estimation of its impact on native cavity-nesting birds.”
- 27–29 September 2006, Vienna (Austria), University of Vienna. Neobiota Conference. Poster presented: “Habitat selection of invasive ring-necked parakeets (*Psittacula krameri*) in Flanders and estimation of its impact on native cavity-nesting birds.”
- 14–19 August 2006, Hamburg (Germany), University of Hamburg. 24th International Ornithological Congress. Poster presented: “Spread of invasive ring-necked parakeets (*Psittacula krameri*) in Europe: ecological aspects and estimation of impact on native breeding birds”
- 9-10 March 2006, Brussels (Belgium), Royal Belgian Institute for Natural Sciences. SOS Invasions Conference. Poster presented: “Habitat selection of the invasive ring-necked parakeet and estimation of its impact on native cavity-nesting birds”

8. PUBLICATIONS

As of May 25th 2021, my papers have been cited 1928/1063 times (Google Scholar/Web of Science), with an h-index of 25/20.

66. De Cuyper A, Clauss M, Lens L, **Strubbe D**, Zedrosser A, Steyaert S, Saravia AM & Janssens GPJ. Grading fecal consistency in an omnivorous carnivore, the brown bear: Abandoning the concept of uniform faeces. *Zoo Biology*, 2021; zoo21593
65. Baardsen, LF, De Bruyn, L, Adriaensen, F, Elst, J, **Strubbe, D**, Heylen, D, & Matthysen, E. No overall effect of urbanization on nest-dwelling arthropods of great tits (*Parus major*). *Urban Ecosystems*, 2021; 1–14
64. Ribeiro J, Bingre P, **Strubbe D** & Reino L. Coronavirus: why a permanent ban on wildlife trade might not work in China. *Nature*, 2020; 578: 217.
63. Greener MS, Verbrugghe E, Kelly M, Blooi M, Beukema W, Canessa S, Carranza S, Croubels S, De Troyer N, Fernandez-Giberteau D, Goethals P, Lens L, Li Z, Stegen G, **Strubbe D**, van Leeuwenberg R, Van Praet S, Vila-Escale M, Vervaeke M, Pasmans Frank & Martel A (2020) Presence of low virulence chytrid fungi could protect European amphibians from more deadly strains. *Nature Communications*, 11(1), 1–11

62. Mequanint F, Wassie A, Aynalem S, Adgo E, Nyssen J, Frankl A, Muys B, Lens L & **Strubbe D** (2020) Biodiversity conservation in the sacred groves of north-west Ethiopia: diversity and community structure of woody species. *Global Ecology and Conservation*, 24:e01377
61. Reyserhove L, Desmet P, Oldoni D, Adriaens T, **Strubbe D**, Davis AJS, Vanderhoeven S, Verloove F, & Groom Q. (2020). A checklist recipe: making species data open and FAIR. *Database*, 2020, 1–12.
60. Fastré C, **Strubbe D**, Balderrama JA, Cahill JRA, Ledegen H, Orellana MT, et al. Bird species richness in high-Andean forest fragments: Habitat quality and topography matter. *Belgian Journal of Zoology*, 2020; 150: 95–133.
59. Fastré C, Possingham HP, **Strubbe D**, Matthysen E. Identifying trade-offs between biodiversity conservation and ecosystem services delivery for land-use decisions. *Scientific Reports*, 2020; 10: 1–12.
58. **Strubbe D**, Salleh Hudin N, Teyssier A, Vantiegheem P, Aerts J, Lens L. Phenotypic signatures of urbanization are scale-dependent: a multi-trait study on a classic urban exploiter. *Landscape and Urban Planning*. 2020; 197: 103767.
57. Oldoni D, Groom Q, Adriaens T, Davis A, Reyserhove L, **Strubbe D**, et al. Occurrence cubes: a new paradigm for aggregating species occurrence data. *bioRxiv*, 2020; 2020.03.23.983601. doi:10.1101/2020.03.23.983601
56. Van De Loock D, **Strubbe D**, Thijs KW, Van De Peer T, De Neve L, Githiru M, et al. Flexible nest-site selection under anthropogenic habitat change in an Afrotropical understorey insectivore. *Ibis*, 2020; 162: 187–200.
55. Rutten A, Casaer J, **Strubbe D**, Leirs H. Agricultural and landscape factors related to increasing wild boar agricultural damage in a highly anthropogenic landscape. *Wildlife Biology*, 2019; wlb.00634
54. de Satgé J, **Strubbe D**, Elst J, De Laet J, Adriaensen F, Matthysen E. Urbanisation lowers great tit *Parus major* breeding success at multiple spatial scales. *Journal of Avian Biology*, 2019; e02108
53. Ribeiro J, Reino L, Schindler S, **Strubbe D**, Vall-llosera M, Araújo MB, et al. Trends in legal and illegal trade of wild birds: a global assessment based on expert knowledge. *Biodiversity and Conservation*, 2019; 28: 3343–3369.
52. Dekeukeleire D, van Schroyen Lantman IM, Hertzog LR, Vandegheuchte ML, **Strubbe D**, Vantiegheem P, et al. Avian top-down control affects invertebrate herbivory and sapling growth more strongly than overstorey species composition in temperate forest fragments. *Forest Ecology and Management*, 2019; 442: 1–9.
51. White RL, **Strubbe D**, Dallimer M, Davies ZG, Davis AJS, Edelaar P, et al. Assessing the ecological and societal impacts of alien parrots in Europe using a transparent and inclusive evidence-mapping scheme. *NeoBiota*, 2019; 48: 45–69.
50. Postigo J-L, **Strubbe D**, Mori E, Ancillotto L, Carneiro I, Latsoudis P, et al. Mediterranean versus Atlantic monk parakeets *Myiopsitta monachus*: towards differentiated management at the European scale. *Pest Management Science*, 2019; 75: 915–922.
49. Kehoe L, Reis T, Virah-Sawmy M, Balmford A, Kuemmerle T, ..., **Strubbe D**,...et al. Make EU trade with Brazil sustainable. *Science*. 2019; 364: 341.
48. Groom Q, **Strubbe D**, Adriaens T, Davis AJS, Desmet P, Oldoni D, et al. Empowering Citizens to Inform Decision-Making as a Way Forward to Support Invasive Alien Species Policy. *Citiz Sci Theory Pract*. 2019; 4: 1–11.

47. **Strubbe D**, White R, Edelaar P, Rahbek C, Shwartz A. Advancing impact assessments of non-native species: strategies for strengthening the evidence-base. *NeoBiota*. 2019; 51: 41–64. doi:10.3897/neobiota.51.35940
46. Peterson AT, Anderson RP, Beger M, Bolliger J, Brotons L, Burridge CP, ..., **Strubbe D**, .. et al. Open access solutions for biodiversity journals: Do not replace one problem with another. *Divers Distrib*. 2019; 25: 5–8.
45. Boonyarittichaijij R, Verbrugghe E, Dekeukeleire D, **Strubbe D**, Van Praet S, De Beelde R, et al. Mitigating the impact of microbial pressure on great (*Parus major*) and blue (*Cyanistes caeruleus*) tit hatching success through maternal immune investment. *PLoS One*. 2018; 13: e0204022.
44. Salleh Hudin N, Teyssier A, Aerts J, Fairhurst GD, **Strubbe D**, White J, et al. Do wild-caught urban house sparrows show desensitized stress responses to a novel stressor? *Biol Open*. 2018; 7: bio.031849.
43. Le Louarn M, Clergeau P, **Strubbe D**, Deschamps-Cottin M. Dynamic species distribution models reveal spatiotemporal habitat shifts in native range-expanding versus non-native invasive birds in an urban area. *J Avian Biol*. 2018; 49: 01527.
42. Teyssier A, Rouffaer LO, Saleh Hudin N, **Strubbe D**, Matthysen E, Lens L, et al. Inside the guts of the city: Urban-induced alterations of the gut microbiota in a wild passerine. *Sci Total Environ*. 2018; 612: 1276–1286.
41. Groom Q, Adriaens T, Oldoni D, Reyserhove L, **Strubbe D**, Vanderhoeven S, et al. TrIAS, leveraging citizen science data to monitor invasive species in Belgium. *Biodivers Inf Sci Stand*. 2018; 2: e24749.
40. Rouffaer LO, **Strubbe D**, Teyssier A, Salleh Hudin N, Van den Abeele A-M, Cox I, et al. Effects of urbanization on host-pathogen interactions, using *Yersinia* in house sparrows as a model. *PLoS One*. 2017; 12: e0189509.
39. Engler JO, Stiels D, Schidelko K, **Strubbe D**, Quillfeldt P, Brambilla M. Avian SDMs: current state, challenges, and opportunities. *Journal of Avian Biology*. 2017; 48: 1483-1504
38. Boonyarittichaijij R, Verbrugghe E, Dekeukeleire D, De Beelde R, Rouffaer LO, Haesendonck R, ..., **Strubbe D**, ..., et al. Salmonella Typhimurium DT193 and DT99 are present in great and blue tits in Flanders, Belgium. *PLoS One*. 2017; 12: e0187640.
37. Reino L, Figueira R, Beja P, Araújo MB, Capinha C, **Strubbe D**. Networks of global bird invasion altered by regional trade ban. *Sci Adv*. 2017; 3: e1700783.
36. Cardador L, Lattuada M, **Strubbe D**, Tella JL, Reino L, Figueira R, et al. Regional Bans on Wild-Bird Trade Modify Invasion Risks at a Global Scale. *Conserv Lett*. 2017; 10: 717–725.
35. Mori E, Ancillotto L, Menchetti M, **Strubbe D**. ‘The early bird catches the nest’: possible competition between scops owls and ring-necked parakeets. *Anim Conserv*. 2017; 20: 463–470.
34. Groom Q, Adriaens T, **Strubbe D**, Vanderhoeven S, Desmet P. Pipedream or pipeline: delivering regular, reliable, up-to-date information on biodiversity through repeatable workflows. *Biodivers Inf Sci Stand*. 2017; 1: 20749.
33. Vanderhoeven S, Branquart E, Casaer J, D’hondt B, Hulme PE, Shwartz A, ..., **Strubbe D**, ..., et al. Beyond protocols: improving the reliability of expert-based risk analysis underpinning invasive species policies. *Biol Invasions*. 2017; 19: 2507–2517.
32. Salleh Hudin N, De Neve L, **Strubbe D**, Fairhurst GD, Vangestel C, Peach WJ, et al. Supplementary feeding increases nestling feather corticosterone early in the breeding season in

- house sparrows. *Ecol Evol.* 2017; 7: 6163–6171.
31. Swinnen KRR, **Strubbe D**, Matthysen E, Leirs H. Reintroduced Eurasian beavers (*Castor fiber*): colonization and range expansion across human-dominated landscapes. *Biodivers Conserv.* 2017; 26: 1863–1876.
 30. Van de Loock D, **Strubbe D**, De Neve L, Githiru M, Matthysen E, Lens L. Cooperative breeding shapes post-fledging survival in an Afrotropical forest bird. *Ecol Evol.* 2017; 7: 3489–3493.
 29. Luna A, Franz D, **Strubbe D**, Shwartz A, Braun MP, Hernández-Brito D, et al. Reproductive timing as a constraint on invasion success in the Ring-necked parakeet (*Psittacula krameri*). *Biol Invasions.* 2017; 19: 2247–2259.
 28. Rouffaer LO, Baert K, Van den Abeele A-M, Cox I, Vanantwerpen G, De Zutter L, ..., **Strubbe D**, ..., et al. Low prevalence of human enteropathogenic *Yersinia* spp. in brown rats (*Rattus norvegicus*) in Flanders. *PLoS One.* 2017; 12: e0175648.
 27. Turbé A, **Strubbe D**, Mori E, Carrete M, Chiron F, Clergeau P, et al. Assessing the assessments: evaluation of four impact assessment protocols for invasive alien species. *Divers Distrib.* 2017; 23: 297–307.
 26. Postigo J-L, Shwartz A, **Strubbe D**, Muñoz A-R. Unrelenting spread of the alien monk parakeet *Myiopsitta monachus* in Israel. Is it time to sound the alarm? *Pest Manag Sci.* 2017; 73: 349–353.
 25. Vanderhoeven S, Adriaens T, Desmet P, **Strubbe D**, Backeljau T, Barbier Y, et al. Tracking Invasive Alien Species (TriAS): Building a data-driven framework to inform policy. *Res Ideas Outcomes.* 2017; 3: e13414.
 24. Aben J, Bocedi G, Palmer SCF, Pellikka P, **Strubbe D**, Hallmann C, et al. The importance of realistic dispersal models in conservation planning: application of a novel modelling platform to evaluate management scenarios in an Afrotropical biodiversity hotspot. *J Appl Ecol.* 2016; 53: 1055–1065.
 23. Salleh Hudin N, **Strubbe D**, Teyssier A, De Neve L, White J, Janssens GPJ, et al. Predictable food supplies induce plastic shifts in avian scaled body mass. *Behav Ecol.* 2016; 27: arw108.
 22. Rouffaer LO, Lens L, Haesendonck R, Teyssier A, Hudin NS, **Strubbe D**, et al. House Sparrows Do Not Constitute a Significant *Salmonella Typhimurium* Reservoir across Urban Gradients in Flanders, Belgium. *PLoS One.* 2016; 11: e0155366.
 21. Pârâu LG, **Strubbe D**, Menchetti M, Ancillotto L, van Kleunen A, Luna Á, Hernández-Brito D, Le Louarn M, et al. Rose-ringed Parakeet *Psittacula krameri* Populations and Numbers in Europe: A Complete Overview. *Open Ornithol J.* 2016; 9: 1–13.
 20. Ancillotto L, **Strubbe D**, Menchetti M, Mori E. An overlooked invader? Ecological niche, invasion success and range dynamics of the Alexandrine parakeet in the invaded range. *Biol Invasions.* 2016; 18: 583–595.
 19. Réus I, **Strubbe D**, Jairo S, Zocche J, Viana IR, Zocche JJ, et al. Monk parakeet invasion success: a role for nest thermoregulation and bactericidal potential of plant nest material? *Biol Invasions.* 2016; 18: 1305–1315.
 18. Coulon A, Aben J, Palmer SCF, Stevens VM, Callens T, **Strubbe D**, Lens L, Matthysen E, Baguette M, Travis JMJ. A stochastic movement simulator improves estimates of landscape connectivity. *Ecology.* 2015; 96: 2203–2213.
 17. Jackson H, **Strubbe D**, Tollington S, Prys-Jones R, Matthysen E, Groombridge JJ. Ancestral origins and invasion pathways in a globally invasive bird correlate with climate and influences from bird trade. *Mol. Ecol.* 2015; 24: 4269–4285.

16. **Strubbe D**, Jackson H, Groombridge J, Matthysen E. Invasion success of a global avian invader is explained by within-taxon niche structure and association with humans in the native range. *Divers. Distrib.* 2015; 21:675-685.
15. **Strubbe D**, Beauchard O, Matthysen E. Niche conservatism among non-native vertebrates in Europe and North America. *Ecography.* 2015; 38: 321-329
14. Aben J, **Strubbe D**, Adriaensen F, Palmer SCF, Travis JMJ, Lens L, Matthysen E. Simple individual-based models effectively represent Afrotropical forest bird movement in complex landscapes. *J. Appl. Ecol.* 2014; 51: 693-702.
13. **Strubbe D**, Matthysen E. Patterns of niche conservatism among non-native birds in Europe are dependent on introduction history and selection of variables. *Biol. Invas.* 2014; 16: 759-764.
12. Velez-Liendo X, **Strubbe D**, Matthysen E. Effects of variable selection on modelling habitat and potential distribution of the Andean bear in Bolivia. *Ursus.* 2013; 24: 127-138.
11. Tinoco BA, Astudillo PX, Latta SC, **Strubbe D**, Graham CH Influence of Patch Factors and Connectivity on the Avifauna of Fragmented Polylepis Forest in the Ecuadorian Andes. *Biotropica.* 2013; 45: 602-611.
10. **Strubbe D**, Broennimann O, Chiron F, Matthysen E. Niche conservatism in non-native birds in Europe: niche unfilling rather than niche expansion. *Glob. Ecol. Biogeogr.* 2013; 22: 962-970.
9. **Strubbe D**, Chiron F, Shwartz A. Reply to Kumschick and Nentwig (2010, 2011): Promoting a robust cost-benefit approach for conducting impact risk assessments of invasive species. *Biol. Cons.* 2011; 144: 2748.
8. **Strubbe D**, Shwartz A, Chiron F. Concerns regarding the scientific evidence informing impact risk assessment and management recommendations for invasive birds. *Biol. Cons.* 2011; 144: 2112-2118.
7. **Strubbe D**, Matthysen E. A radiotelemetry study of habitat use by the exotic Ring-necked Parakeet *Psittacula krameri* in Belgium. *Ibis.* 2011; 153: 180-184.
6. **Strubbe D**, Matthysen E, Graham CH. Assessing the potential impact of invasive ring-necked parakeets *Psittacula krameri* on native nuthatches *Sitta europaea* in Belgium. *J. Appl. Ecol.* 47: 549-557.
5. **Strubbe D**, Matthysen E. Establishment success of invasive ring-necked and monk parakeets in Europe. *J. Biogeogr.* 36: 2264-2278.
4. **Strubbe D**, Matthysen E. Experimental evidence for nest-site competition between invasive ring-necked parakeets (*Psittacula krameri*) and native nuthatches (*Sitta europaea*). *Biol. Cons.* 2009; 142: 588-1594.
3. Shwartz A, **Strubbe D**, Butler C, Matthysen E, Kark S. The effect of enemy-release and climate conditions on invasive birds: a regional test using the rose-ringed parakeet *Psittacula krameri* as a case study. *Divers. Distrib.* 2009; 15: 310-318.
2. **Strubbe D**, Matthysen E. Predicting the potential distribution of invasive ring-necked parakeets *Psittacula krameri* in northern Belgium using an ecological niche modelling approach. *Biol. Invas.* 2009; 11: 497-513.

1. **Strubbe D**, Matthysen E. Invasive ring-necked parakeets *Psittacula krameri* in Belgium: habitat selection and impact on native birds. *Ecography*. 2007; 30: 578-588.

Book Chapters

3. **Strubbe D** & Matthysen E. Ring-necked parakeet (*Psittacula krameri* Scopoli, 1769). In: *Invasive Birds: Global Trends and Impacts*, edited by Colleen T Downs and Lorinda A Hart. 2021; CABI Publishing.
2. Huysentruyt F, Callaghan CT, **Strubbe D**, Winston K, Adriaens T & Brooks M. Egyptian Goose (*Alopochen aegyptiacus*). In: *Invasive Birds: Global Trends and Impacts*, edited by Colleen T Downs and Lorinda A Hart. 2021; CABI Publishing.
1. **Strubbe D**. Halsbandsittiche. In: *Unheimliche Eroberer. Invasive Pflanzen und Tiere in Europa*. 2011, pp 213-220; Haupt-Verlag

Manuscripts currently under review

Strubbe D, Haesendonck R, Verbrugge E, Lens L, Ducatelle R, Croubels S, Haesebrouck F, Martel A & Pasmans, F. Host-pathogen co-existence incurs reproductive costs. Under review at iScience, available as bioRxiv preprint at <https://doi.org/10.1101/2020.10.12.336370>

Strubbe D, Davis AJS, Lens L & Rahbek C. Mechanistic models project bird invasions with accuracy. Under review at *Nat. Comms*.

Naimi B, Capinha C, Ribeiro J, **Strubbe D**, Reino L & Araújo M. Global risk of avian invasions under climate and land-cover change. Under review at *PNAS*.

Dekeukeleire D, Hertzog L, Aerts J, Vandegehuchte ML, Vantieghem P, Martel A, Verheyen K, Bonte D, **Strubbe D** & Lens L. Cross-seasonal relationships between social network position and stress in a free-ranging songbird. Under review at *Horm. Behav*.