
Dr Isabel Smallegange

Associate Professor of Population Biology

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Qualifications

- 2014 University Teaching Qualification for Lecturers (**BKO**)
- 5 Sep 2007 **PhD**, '*Interference competition and patch choice in foraging shore crabs*' (0.8 fte)
Netherlands Institute for Sea Research & University of Amsterdam, The Netherlands
- 2000 **BSc, MSc** Population Biology, Wageningen University, The Netherlands

Professional history

- 2019 – present **Visiting scholar**, Neth. Inst. for Sea Research (NIOZ), the Netherlands
- 2018 – present **Associate Professor**, Faculty of Science, University of Amsterdam, NL
- 2013 – 2018 **MacGillavry Fellow** (tenure track), Faculty of Science, University of Amsterdam, NL
- 2010 – 2013 **Research Fellow** at Imperial College & University of Oxford, UK
- 2008 – 2010 **Rubicon Fellowship** (NWO) – held at Imperial College London, UK
- 2007 – 2008 **Alexander v Humboldt Fellowship** – held at Max Planck Inst. for Ornithology, G
- 2005 **Marie Curie Research Trainee Fellowship** – held at University of Exeter, UK
- Maternity leave* Dec 2012 – June 2013

Personal circumstances influencing my academic activities

Between 2013 and 2018, I worked 80% FTE to also have time to care for my young son with autism. This has nevertheless been a productive period during which I have obtained 2M€ grant money as PI, published 15 first/senior-author papers (pro rata equating to 4 first/senior-author papers per year fulltime). I concluded this period by receiving early tenure after four years (instead of five). I now work fulltime but still do not travel internationally because of my care duties. Because of COVID-19, I have prioritised supervising students and online teaching, and home-schooling my son during lockdowns during the last 1.5 years. This has temporarily lowered my productivity because I have had to postpone writing and submitting papers and grant proposals.

Research

Evidence of international reputation for research

- **2.5 M€ personal grant money** awarded
- **29 invited talks** since obtaining my PhD in 2007
- **Associate Editor (4 journals; 1 peer community)**: *Functional Ecology* (since 2018), *Oikos* (since 2013), *Entomologia Experimentalis et Applicata* (since 2019), and *Journal of Animal Ecology* (2011 – 2014); *Recommender for PCI Entomology* (since 2019)
- **Grant Reviewer** for Austrian Science Fund, Earthwatch, ERC H2020, NERC, ESF-FWO, Norway Research Council, NSF, NWO, Swiss National Science Foundation, The Royal Society
- **Manuscript Reviewer** for >40 journals, incl. *Nature*, *Nature Ecol & Evol*; *Scientific Reports*
- **Invited member of the European Science Foundation College of Expert Reviewers**

Grants, Fellowships, and Awards

- 2019 **1.5 yr, 0.8 fte, Post Doc position**, €96,403, funded by Faculty of Science (UvA) (PI)
- 2017 **Marie Curie Fellowship** ECOEVOCLIM €165,599 (co-supervisor)
- 2017 **Nomination for Lecturer of the Year** 2017 (University of Amsterdam)
- 2015 **3-yr, 1 fte, Post Doc position**, €185,000, funded through MacGillavry Fellowship (UvA)
- 2014 **Aspasia Grant** (Netherlands Organisation for Scientific Research) (PI), € 100,000 (declined)

- 2014 **VIDI Fellowship** (Netherlands Organisation for Scientific Research) (PI), 5 yrs, € 800,000
 2013 **MEERVOUD Fellowship** (Neth. Organisation for Scientific Research) (PI), 4 yrs, € 225,000
 2013 **MacGillavry Fellowship** (University of Amsterdam) (PI). 5 yrs, € 850,000
 2010 **Nomination in “Viva400”**: 400 most talented women under 38 in The Netherlands (Viva)
 2009 **Dutch Wadden Academy Prize** for best PhD thesis, € 5,000
 2008 **Rubicon Fellowship** (Netherlands Organisation for Scientific Research) (PI), 2 yrs, € 87,480
 2007 **Alexander von Humboldt Fellowship** (AvH Foundation) (PI), 1 yr, € 25,000
 2005 **Marie Curie Research Fellowship** (Marie Curie Fellowship Association) (PI), 6 mo, £ 6,000
 2001 **Poster award**, First European Conference on Behavioural Biology, Münster (Germany)

Collaborations (current, and post-PhD co-publications)

- **UBC (Canada) – Jonathan Davies**: The role of phylogenetic diversity in disease outbreaks.
- **CRIOBE (France/Polynesia) – Serge Planes**: Recruitment and conservation of sharks.
- **Utrecht University (NL) – Willem Frankenhuis**: developmental plasticity in (non)human animals
- **Neth. Inst. of Ecology (NL) – Marcel Visser**: genomics and demography of great tits
- **University of Vigo (Spain) – Rula Domínguez**: Prey preference of marine predators.
- **Adam Mickiewicz University (Poland) – Michał Kolasa**: Genetic diversity in bulb mites.
- **NIOZ (NL) – Anieke van Leeuwen**: Size-structured fish ecology under anthropogenic pressures.
- **NIOZ (NL) – Jan van Gils**: Demography of red knots.
- **VU University (NL) – Matty Berg**: Stochastic demography of *Orchestia gammarellus*.
- **Lund University (Sweden) – Jacob Johansson**: Evolution of male dimorphisms.
- **Zavora Marine Lab (Mozambique) – Yara Tibiriça**: Demography of reef manta rays.

Invited talks (selection since 2013)

- 2021 Departmental seminar – Department of Philosophy, Ruhr-University Bochum (D)
 2021 Departmental seminar – Department of Biology, Université de Sherbrooke (Canada)
 2021 Departmental seminar – Behavioural Ecology seminar series, LMU München (D)
 2020 Keynote speaker at EVENET eco-evolutionary dynamics symposium (B)
 2019 Symposium keynote speaker at the Congress of the European Society for Evol. Biology* (FN)
 2018 Symposium keynote speaker at Evolution (Joint Congress on Evol. Biology), Montpellier* (F)
 2017 Symposium keynote speaker at the Congress of the European Society for Evol. Biology (NL)
 2017 Dutch Society of Theoretical Biology – mite/modelling mini-session (NL)
 2016 Workshop “Integrating dynamic energy budget into integral projection models” based on my paper in *Methods in Ecology and Evolution*, Netherlands Institute for Sea Research (NL)
 2016 EIS-day Symposium (EIS Kenniscentrum Insecten), Naturalis Leiden (NL)
 2016 Per Brink Symposium, Turku (FIN) (declined due to teaching conflict)
 2015 Departmental seminar, Free University (VU) Amsterdam (NL)
 2015 Symposium on individual variation, University of Tromsø (N) (all costs paid)
 2015 Departmental seminar, University of Gent (B) (declined due to teaching conflict)
 2014 Departmental seminar, University of Bern (CH) (all costs paid)
 2014 XIV International Congress of Acarology, Kyoto (Japan) (declined in favour of Bern talk)
 2013 BIO symposium, Biodiversity resilience, University of Oxford (UK)
 2013 INTECOL Congress, Ecology: Into the next 100 years, London (UK)

* *declined due to care duties*

Teaching: supervision, course design, mentoring, programme administration

Supervision of BSc, MSc, PhD students and Post Docs

2020 – present	Co-supervisor of Marjolein Toorians, PhD student at UBC (Canada)
2019 – present	Promotor (principal supervisor) of Mark Rademaker, external PhD student at NIOZ
2019 – present	Co-supervisor of Kim Eustache, joint doctorate PhD student at CRIOBE and UvA
2017 – present	Co-promotor (co-supervisor) of Naomi Zweerus, PhD student at UvA
2015 – present	Promotor and daily supervisor of Flor Rhebergen, PhD student at UvA
2007 – present	Supervisor of on average 4 MSc and 2 BSc students per year
2020	Co-supervisor of Rula Domínguez, visiting PhD student from University of Vigo
2017 – 2021	Supervisor of Post Doc Kathryn Stewart at UvA
2017 – 2019	Co-supervisor of Marie Curie Fellow Laura Gangoso at UvA
2015 – 2018	Supervisor of Post Doc Jacques Deere at UvA
2014 – 2019	Co-promotor (co-supervisor) of PhD student Tom van den Beuken, UvA
2011 – 2015	Daily supervisor of PhD student Jacques Deere, Oxford University
2008 – 2012	Personal tutor to 5 MSc students , Imperial College London

Thesis committees

- **12 PhD defence committees @ UvA:** Morgan Brown (2022), Pedro Branco (2021), Rik Lievers (2021), Silke van Daalen (2020), Charlotte de Vries (2019), Catalina Chaparro Pedraza (2019), Hanna ten Brink (2018), Nina Zhang (2018), Alexandra Ravinhi (2017), Karen Muñoz (2017), Heike Staudacher (2016), and Paulien de Bruin (2015)
- **Invited to serve on habilitation thesis committee** (declined as I could not travel abroad due to care duties): Tom van Dooren (2019). iEES Paris, Université Pierre et Marie Curie (UPMC).
- **Invited to serve on overseas PhD defence committee** (declined as I could not travel abroad due to care duties): Soledad Castaño (2016; National Institute for Agricultural Research (INRA) and the Center for International Research in Agriculture and Development (CIRAD), Guadeloupe.
- **PhD upgrade viva** of Harry Marshall (2011) at Imperial College London

Course and curriculum design

- Corona crisis team online/onsite teaching Future Planet Studies Bachelor Sep-Dec 2020
- MSc track '[Future Planet Ecosystem Science](#)' at the IBED (UvA) (member of core design team)
- 3rd year BSc course 'Evolution & Behaviour' (course design)

Lecturing and course convener

- **Supervisor** – TESLA interdisciplinary MSc minor (science, business, society); 30 EC (2021 –)
- **Lecturer** – Psychobiology Year 2 Review; 6 EC BSc course (2019 –)
- **Convener and lecturer** - 'Toekomstperspectief voor de Aarde'; 6 EC BSc course (2017 –)
- **Lecturer** - Grand Challenges of Human-Ecosphere Interactions; 6 EC MSc course (2017 –)
- **Lecturer** – Current Trends in Ecology & Evolution; 6 EC MSc course; (2014 –)
- **Convener and lecturer** - Evolution & Behaviour; 12 EC BSc course; (2015 – 2020)
- **Lecturer** - Integral Projection Models; 2 EC PhD/PD Course @ Transmitting Science (2017)
- **Lecturer** - 'Regulering van Vorm en Functie van Dieren'; BSc course (2015 - 2018)
- **Lecturer** - Evolutiebiologie Theorie; BSc course; University of Amsterdam (2003-2008; 2014)
- **Convener and lecturer** - Behavioural Ecology; MSc course; Imperial College (2012)
- **Tutor** - Tutorials; BSc course; Imperial College London (2010)
- **Lecturer** - Demography and Management; MSc course; Imperial College London (2009)

Mentoring

- **British Ecological Society Mentor** for returners to academia after a career break.
- **Career mentor** for a number of former students.

Programme administration

- 2020 – present Member **Programme Committee** Bachelor Future Planet Studies (UvA)
 2018 – present Member **Programme Committee** Bachelor Biology (UvA)

Academic leadership, services and management

- 2021 – present **Member** steering committee Dutch research community Organisms in the Environment Netherlands Organisation for Scientific Research
 2021 – present **Elected Member** of the Faculty of Science Works Council (UvA)
 2021 – present **Member** of the **European Science Foundation College of Expert Reviewers**
 2020 – present **Member** sounding board evaluation tenure track policy Faculty of Science (UvA)
 2019 – present **Associate Editor** for *Entomologia Experimentalis et Applicata*
 2019 – present **Recommender** for [PCI Zoology](#)
 2018 – present **Mentor**, Women in Science, British Ecological Society
 2018 – present **Associate Editor** for *Functional Ecology*
 2013 – present **Subject Editor** for *Oikos*
 2018 – 2021 **Elected Chair** of the Faculty of Science Works Council (UvA)
 2018 – 2019 **Chair** Scientific Advisory Council at the IBED (UvA)
 2017 – 2018 **Founding member** and **Treasurer** of ‘De Amsterdamse Academie’: a society active in the Faculty Works Councils of the University of Amsterdam
 2016 – 2017 **Member** of the core team to revise human resource management for the 2017-2022 strategic plan of the IBED (UvA)
 2016 – 2017 **Member** of the core team to design the new Master course ‘Future Planet Ecosystem Science’ at the IBED (UvA)
 2015 **Organiser** Zoology 2015 Congress (Dutch/ Belgian zoological society meeting)
 2014 **Founder of PhD/PD Council** at the IBED (UvA)
 2014 **Session convener** Netherlands Annual Ecology Meeting
 2011 – 2014 **Associate Editor** for Journal of Animal Ecology
 2011 – 2012 **Organiser** First (2011) and Second (2012) Post Doc Symposium at Imperial College
 2009 – 2011 **Convener** of well-attended lunchtime seminar series at Imperial College London
 2003 **Organiser** “Interference competition” symposium Neth. Inst. for Sea Research

Memberships & committees

- 2021 – present Invited member of the **European Science Foundation College of Expert Reviewers**
 2020 – present Member **Programme Committee** Bachelor Future Planet Studies (UvA)
 2019 – present Member **Scientific Advisory Council** at the IBED (UvA)
 2018 – present Member **Programme Committee** Bachelor Biology (UvA)
 2016 – present **Staff member** Production Ecology & Resource Conservation Graduate School (NL)
 2008 – present **Member** of the British Ecological Society
 2019 **Advisory Appointment Committee** tenure track theoretical ecology position
 2017 – 2019 **DO-VENI Fellowship Selection Committee** of NWO (3x)
 2015 – 2016 **Member** of the lecturer ‘sounding board’ at the Faculty of Science of UvA
 2015 **Member** of the scientific committee of the Zoology 2015 Congress
 2015 **Grant Selection Committee** of NWO Earth and Life Sciences
 2015 **Member** of the PB/EB/EPS Profile Committee at IBED (UvA)
 2014 - 2017 **Search Committees** at University of Amsterdam (5 PhD students; 3 Post Docs)
 2012 – 2020 **Member** of Peerage of Science
 2011 – 2012 **Member** of the Life Sciences Post Doc Committee (Imperial College London)
 2011 – 2012 **Post Doc Representative** (Imperial College London)
 2009 – 2012 **Faculty Member** of F1000 (www.f1000biology.com)

- 2009 – 2012 **Search Committee** Coulson group (2x PhD student; 1x Post Doc) (Imperial College)
- 2002 – 2006 **Member** of the PhD committee at the Netherlands institute for Sea Research
- 2001 – 2002 **Chair** of the PhD committee at the Netherlands institute for Sea Research
- 2000 – 2005 **Member** of the Netherlands Society for Behavioural Biology

Impact, media coverage and outreach

Impact & media coverage

- [Human Odyssey Podcast](#) (2020) on manta ray work (Smallegange et al. 2016; 2019)
- Stewart et al. (2018) highlighted in [UvA press release](#), [Phys.Org](#), [Aurus](#), among others.
- Paper Smallegange et al. (2017, MEE 8:146-154) highlighted in 2018 *Methods in Ecology and Evolution* Virtual Issue [Integrating Ecology and Evolution](#).
- Paper Smallegange & Egas (2015: Trends Ecol Evol 30:379-381) recommended in F1000 as ‘controversial’ and ‘interesting hypothesis’ (F1000Prime.com/726284535), and in a F1000 Faculty Review (Kramer J & Meunier J. F1000Research 2016, 5:776 doi:10.12688/f1000research.8018.1).
- Shark Year Magazine (USA) featured reef manta ray demography in Smallegange et al. (2016).
- The demographic analysis by Smallegange et al. (2016: *PeerJ* 4:e2370), conducted with the non-academic organisation Zavora Marine Lab, has been put forward to local government and biologists to aid in the protection of reef manta rays off the coast of Mozambique.
- The publication “Smallegange et al. (2014)” was covered in the Sensory Ecology Blog of Vassar College, Poughkeepsie, New York (USA).
- The publications “Smallegange (2011a,b)” were highlighted in the EURAAC (European Association of Acarologists) June 2011 newsletter for the novel approach to understanding polymorphisms.
- Papers Smallegange & van der Meer (2007) and Smallegange et al. (2007) were used as discussion material in the course “*Is deviating from rational conduct rational? Economic behavior in humans and other animals*”, Vassar College, Poughkeepsie, New York (USA)
- My PhD research has received media attention in several international newspapers, and featured in a book on science conducted in the Netherlands in 2007: “*Experiment NL: Wetenschap in Nederland*” (2007), and discussed in the book ‘*Soccermatics – Mathematical Adventures in the Beautiful Game* (2016) by David Sumpter.

Outreach

- ‘WILD IDEE - Ontstaan diersoorten juist sneller buiten de soortenrijke tropen?’ (2021) Volkskrant.
- Blogs: I write a blog [on work-life balance in academia](#), a blog [on my eco-evolutionary dynamics research](#), and on my work in [the Faculty Works Council](#). I also write for blogs of the peer-reviewed journals [Oikos](#), [Journal of Animal Ecology](#) (106 followers) and [Functional Ecology](#) (104 followers), and contribute to the [Rapid Ecology](#) blog (2157 followers).
- [Human Odyssey Podcast](#) (2020) on manta ray work (Smallegange et al. 2016; 2019)
- Smallegange IM, Berg MP (2020). A slow pace of life makes animals more sensitive to unpredictable climate variations. *Amsterdam Science* 11:3.
- Primary schools: “*Waterbeestjes*” 4-6 yr olds; “*Muziek en biologie*” 4-6 yr olds (De Springschans, Heiloo, 2019).
- Seminar at the congress “Leve de Biologie 2017”; an initiative to present secondary school teachers cutting-edge research and discuss links between universities and schools.
- I have talked about my science at societal institutions such as an amateur entomologist convention (EIS) in 2016 and Ecomare (a nature museum and marine animal shelter) in 2003.
- I have spoken at MSc and PhD symposia and meetings on my career experiences in academia e.g. at the University of Amsterdam (2015), Leiden University (2016), NLSEB meeting (2019).
- I have written popular science articles for the popular science magazines *Kunst and Wetenschap* (2007) and *Wadden Academy Magazine* (2010)
- I provide work experience places and have hosted a Nuffield bursary student (2008).

Publication List

Peer-reviewed publications

⁽ⁱ⁾ invited contribution (9x);

BSc, MSc and PhD students are underlined; § shared first authorship

- 52 Rademakers M, **Smallegange IM**, van Leeuwen A. Causal links between North Sea fish biomass trends and seabed structure. *accepted. Marine Ecology Progress Series*.
- 51 Domínguez R, Vázquez E, **Smallegange IM**, Woodin SA, Wetthey DS, Peteiro LG, Olabarria C. Predation risk increases in estuarine bivalves stressed by low salinity. 2021. *Marine Biology* 168:132
- 50 Deere JA, van den Berg I, Roth G, **Smallegange IM**. 2021. A modelling exercise to show why population models should incorporate distinct life histories of dispersers. *Population Ecology* 63: 134-144.
- 49 ⁽ⁱ⁾ **Smallegange IM**, Flotats Avilés M, Eustache K. 2020. Unusually paced life history strategies of marine megafauna drive atypical sensitivities to environmental variability. *Frontiers in Marine Science* 7:597492
- 48 ⁽ⁱ⁾ **Smallegange IM**[§], Rhebergen FT[§], Stewart KA. 2019. Cross-level considerations for explaining selection pressures and the maintenance of genetic variation in condition-dependent male morphs. *Current Opinion in Insect Science* 36: 66-73.
- 47 **Smallegange IM**, Berg M. 2019. A functional trait approach to identifying life history patterns in stochastic environments. *Ecology and Evolution* 9: 9350-9361
- 46 van den Beuken TPG, Stockwell L, **Smallegange IM**. 2019. *Et tu*, brother? Kinship and increased nutrition lower cannibalism incidence in male bulb mites. *Animal Behaviour* 152: 45-52
- 45 Stewart KA, Draaijer R, Kolasa MR, **Smallegange IM**. 2019. The role of genetic diversity in the evolution and maintenance of environmentally-cued, male alternative reproductive tactics. *BMC Evolutionary Biology* 19:58
- 44 van den Beuken TPG, Duinmeijer CC, **Smallegange IM**. 2019. Costs of weaponry: unarmed males sire more offspring than armed males in a male-dimorphic mite. *Journal of Evolutionary Biology* 32: 153-162
- 43 ⁽ⁱ⁾ Croll JC, Egas M, **Smallegange**^{*} **IM**. 2019. An eco-evolutionary feedback loop between population dynamics and fighter expression affects the evolution of alternative reproductive tactics. *Journal of Animal Ecology* 88: 11-23.
- 42 van den Beuken TPG, **Smallegange IM**. 2018. Life-history consequences of bidirectional selection for male morph in a male-dimorphic bulb mite. *Experimental and Applied Acarology* 76: 435-452
- 41 van den Beuken TPG, **Smallegange IM**. 2018. Life history consequences of nutritional history in a male dimorphic mite: evidence for a nuptial gift? *Evolutionary Ecology* 32: 411-425
- 40 Stewart, KA, van den Beuken TPG, Rhebergen FT, Deere JA, **Smallegange IM**. 2018. Evidence for a third male type in a male-dimorphic model species. *Ecology* 99: 1685-1687
- 39 ⁽ⁱ⁾ **Smallegange IM**, Ens HM. 2018. Trait-based predictions and responses from laboratory mite populations to harvesting in stochastic environments. *Journal of Animal Ecology* 87: 893-905

- 38 ⁽ⁱ⁾ Hamel S, Yoccoz NG, Gaillard J-M, Bassar RD, Bouwhuis S, Caswell H, Douhard M, Gangloff EJ, Gimenez O, Lee PC, **Smallegange IM**, Steiner UK, Vedder O, Vindenes Y. 2018. General conclusion to the special issue Moving forward on individual heterogeneity. *Oikos*. 127: 750-756
- 37 ⁽ⁱ⁾ **Smallegange IM**, Fernandes RE, Croll JC. 2018. Population consequences of individual heterogeneity in life histories: overcompensation in response to harvesting of alternative reproductive tactics. *Oikos* 127: 738-749.
- 36 Deere JA, Coulson T, Cubaynes S, **Smallegange IM**. 2017. Unsuccessful dispersal affects life history characteristics of natal populations: The role of dispersal related variation in vital rates. *Ecological Modelling* 366: 37-47.
- 35 **Smallegange IM**, Caswell H, Toorians MEM, de Roos AM. 2017. Mechanistic description of population dynamics using dynamic energy budget theory incorporated into integral projection models. *Methods in Ecology and Evolution* 8: 146-154.
- 34 **Smallegange IM**, van der Ouderaa IBC, Tibiriça Y. 2016. The effect of yearling, juvenile and adult survival on reef manta ray (*Manta alfredi*) demography. *PeerJ*. 4:e2370.
- 33 ⁽ⁱ⁾ **Smallegange IM**. 2016. Life History Trade-offs. In: Kliman, R.M. (ed.), Encyclopedia of Evolutionary Biology. Vol. 2, pp. 390–393. Oxford: Academic Press.
- 32 Deere JA, Coulson, T, **Smallegange IM**. 2015. Life history consequences of the facultative expression of a dispersal life stage in the phoretic bulb mite (*Rhizoglyphus robini*). *PLoS ONE* 10(9): e0136872.
- 31 **Smallegange IM**, Egas, CJM. 2015. Good for the group? Explaining apparent group-level selection. *Trends in Ecology & Evolution* 30: 379-381
- 30 ⁽ⁱ⁾ **Smallegange IM**, Deere JA. 2014. Eco-evolutionary interactions as a consequence of selection on a secondary sexual trait. *Advances in Ecological Research* 50: 145-169.
- 29 Leigh DM, **Smallegange IM**. 2014. Effects of variation in nutrition on male morph development in the bulb mite *Rhizoglyphus robini*. *Experimental and Applied Acarology* 64: 159-170.
- 28 **Smallegange IM**, Deere JA, Coulson T. 2014. Correlative changes in life-history variables in response to environmental change in a model organism. *American Naturalist* 186: 784-797.
- 27 Deere JA, **Smallegange IM**. 2014. Does frequency-dependence determine male morph survival in the bulb mite, *Rhizoglyphus robini*? *Experimental and Applied Acarology* 62: 425-436.
- 26 **Smallegange IM**, Johansson J. 2014. Life history differences favour evolution of male dimorphism in competitive games. *American Naturalist* 183: 188-198.
- 25 **Smallegange IM**, Coulson T. 2013. Towards a general, population-level understanding of eco-evolutionary change. *Trends in Ecology & Evolution* 28:143-148.
- 24 Johansson J, **Smallegange IM**, Jonzén N. 2012. An eco-evolutionary model for demographic and phenological responses in migratory birds. *Biology* 1: 639-657.
- 23 **Smallegange IM**, Charalambous M, Thorne N. 2012. Fitness trade-offs and the maintenance of alternative male morphs in the bulb mite (*Rhizoglyphus robini*). *Journal of Evolutionary Biology* 25:972-980.
- 22 **Smallegange IM**, Coulson T. 2011. The stochastic demography of two coexisting male morphs. *Ecology* 92:755-764.
- 21 **Smallegange IM**. 2011. Complex environmental effects on the expression of alternative reproductive phenotypes in the bulb mite. *Evolutionary Ecology* 25:857-873.

- 20 **Smallegange IM**. 2011. Effects of paternal phenotype and environmental variability on age and size at maturity in a male dimorphic mite. *Naturwissenschaften* 98:339-346.
- 19 Godsall B, **Smallegange IM**. 2011. Assessment games in the mangrove tree-dwelling crab, *Selatium brockii* (De Man, 1887). *Crustaceana* 84:1697-1718.
- 18 **Smallegange IM**, van der Meer J, Fiedler W. 2011. Population dynamics of three songbird species in a nestbox population in Central Europe show effects of density, climate and competitive interactions. *Ibis* 153: 806-817.
- 17 **Smallegange IM**, van der Meer J, Sabelis MW. 2010. 'Take-away' foraging spatially uncouples predator and prey-attack distributions. *Journal of Animal Ecology* 79:769-776
- 16 **Smallegange IM**, van der Meer J. 2010. Testing a stochastic version of the Beddington-DeAngelis functional response in foraging shore crabs. *Marine Biology* 157:1027-1040
- 15 **Smallegange IM**, Fiedler W, Köppen U, Geiter O, Barlein F. 2010. Tits on the move: exploring the impact of environmental change on blue tit and great tit migration distance. *Journal of Animal Ecology* 79:350-357
- 14 ⁽ⁱ⁾ **Smallegange IM**, Coulson T. 2009. Unifying ecological and evolutionary dynamics through experimental stochastic demography. *Israel Journal of Ecology and Evolution* 55:199-205.
- 13 **Smallegange IM**, van Noordwijk CGE, van der Meer J, van der Veer HW. 2009. Spatial distribution of shore crab *Carcinus maenas* in an intertidal environment in relation to their morphology, prey availability and competition. *Marine Ecology Progress Series* 392:143-155
- 12 **Smallegange IM**, van der Meer J. 2009. The distribution of unequal predators across food patches is not necessarily (semi)truncated. *Behavioral Ecology* 20:525-534
- 11 van der Meer J, **Smallegange IM**. 2009. A stochastic version of the Beddington-DeAngelis functional response: modelling interference for a finite number of predators. *Journal of Animal Ecology* 78:134-142
- 10 **Smallegange IM**, Hidding B, Eppenga JMA, van der Meer J. 2008. Optimal foraging and risk of claw damage: how flexible are shore crabs in their prey size selectivity? *Journal of Experimental Marine Biology and Ecology* 367:157-163
- 9 **Smallegange IM**, Tregenza T. 2008. Local competition between foraging relatives: growth and survival of bruchid beetle larvae. *Journal of Insect Behavior* 21:375-386
- 8 **Smallegange IM**, van der Meer J. 2007. Interference from a game theoretical perspective: shore crabs suffer most from equal competitors. *Behavioral Ecology* 18:215-221
- 7 **Smallegange IM**, Sabelis MW, van der Meer J. 2007. Assessment games in shore crab fights. *Journal of Experimental Marine Biology and Ecology* 351:255-266
- 6 **Smallegange IM**, van der Meer J, Kurvers RHJM. 2006. Disentangling interference competition from exploitative competition in a crab-bivalve system using a novel experimental approach. *Oikos* 113:157-167
- 5 **Smallegange IM**, van der Meer J. 2003. Why do shore crabs not prefer the most profitable mussels? *Journal of Animal Ecology* 72:599-607
- 4 Riebel K, **Smallegange IM**. 2003. Does zebra finch (*Taeniopygia guttata*) preference for the (familiar) father's song generalize to the songs of unfamiliar brothers? *Journal of Comparative Psychology* 117:61-66
- 3 **Smallegange IM**, Brunsting AMH. 2002. Food supply and demand, a simulation model of the functional response of grazing ruminants. *Ecological Modelling* 149:179-192

- 2 Riebel K, **Smallegange IM**, Terpstra NJ, Bolhuis JJ. 2002. Sexual equality in zebra finch song preference: evidence for a dissociation between song recognition and production learning. *Proceedings of the Royal Society London B* 269:729-733
- 1 Agoramoorthy G, **Smallegange I**, Spruit I, Hsu MJ. 2000. Swimming behaviour among bonnet macaques in Tamil Nadu. *Folia Primatologica* 71:152-153

In submission / revision

- o **Smallegange IM**. Eco-evolutionary causation of animal population dynamics. *Trends in Ecology & Evolution*
- o Zeeman AN, **Smallegange IM**, Burdfield Steel E, Groot AT, Stewart KA. Toward an understanding of the chemical ecology of alternative reproductive tactics in the bulb mite (*Rhizoglyphus robini*). *BMC Ecology & Evolution*. 10.1101/2021.06.30.450527

In preparation (submission within the next three months)

- o Rhebergen FT, Stewart KAS, **Smallegange IM**. Nutrient-dependent allometric plasticity in a male-diphenic mite. *BMC Ecology & Evolution*. <https://doi.org/10.1101/2021.06.14.448383>
- o Rhebergen FT, **Smallegange IM**. Facultative release from developmental constraints through polyphenism promotes adaptively flexible maturation. *Nature Ecology & Evolution*. <https://doi.org/10.1101/2021.06.14.448392>
- o Romeijn J, **Smallegange IM**. Exploring how a fast-slow continuum and size-at-life-stage structure microorganism life history variation. *Conservation Physiology*.
- o Rademaker M, van Leeuwen A, **Smallegange IM**. Energy budget strategies forecast population growth across autocorrelated environments. *Ecology Letters*.
- o Zweerus NL, van Wijk M, **Smallegange IM**, Groot AT. Variation in female mate choice when females also signal. *Evolution*.

Other publications

Popular science

- o **Smallegange IM**, Berg MP (2020). A slow pace of life makes animals more sensitive to unpredictable climate variations. *Amsterdam Science* 11:3
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