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## 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

- 2018 – present **Associate Professor**, Faculty of Science, University of Amsterdam, NL
- 2019 – present **Visiting scholar**, Neth. Inst. for Sea Research (NIOZ), the Netherlands
- 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

## Research

### Evidence of international reputation for research

- **2.3 M€ personal grant money** awarded
- **26 invited talks** since obtaining my PhD in 2007
- **Associate Editor** for *Functional Ecology* (since 2018), *Oikos* (since 2013), and *Journal of Animal Ecology* (2011 – 2014); **Recommender** for *PCI Entomology*
- **Faculty Member** of the Faculty of 1000 (2009 – 2012)
- **Grant Reviewer** for Austrian Science Fund, Earthwatch, ERC H2020, NERC, Norway Research Council, NSF, NWO, SNF, The Royal Society
- **Manuscript Reviewer** for 36 journals, incl. *Nature Ecology & Evolution* and *Scientific Reports*

### Grants, Fellowships, and Awards

- 2018 **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)
- 2008 **Rubicon Fellowship** (Netherlands Organisation for Scientific Research) (PI), 2 yrs, € 87,480
- 2009 **Dutch Wadden Academy Prize** for best PhD thesis, € 5,000
- 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)

- **CRIOBE (France/Polynesia) – Serge Planes:** Recruitment and conservation of sharks.
- **University of Vigo (Spain) – Rula Domínguez:** Prey preference of marine predators.
- **Adam Mickiewicz University (Poland) – Miłkoł 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.
- **Oxford University (UK) – Tim Coulson:** Evolutionary demography of bulb mites.
- **Imperial College London (UK) – Magda Charalambous:** Male-male competition in bulb mites.
- **Max Plank Inst. for Ornithology (Germany) – Wolfgang Fielder:** Bird population dynamics.

## Invited talks (selection since 2013)

- 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)

\* *care duties due to son's condition prevented me from travelling abroad to accept this invitation*

## Supervision, course design and teaching, and mentoring

### Supervision of BSc, MSc, PhD students and Post Docs

- 2020 **Co-supervisor** of Rula Domínguez, **visiting PhD student** from University of Vigo
- 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
- 2016 – present **Supervisor** of **Post Doc** Kathryn Stewart 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**
- 2017 – 2019 **Co-supervisor** of **Marie Curie Fellow** Laura Gangoso at UvA
- 2015 – 2018 **Supervisor** of **Post Doc** Jacques Deere at UvA
- 2014 – 2019 **Daily supervisor** (co-promotor) 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

- **8 PhD defence committees @ UvA:** 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

- MSc track '[Future Planet Ecosystem Science](#)' at the IBED (UvA) (member of core design team)
- 3<sup>rd</sup> year BSc course 'Evolution & Behaviour' (course design)

## Lecturing and course convener

- **Convener** - '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.

## Impact, outreach and media coverage

### Impact

- 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).
- 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.
- 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)

### Outreach

- 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).

- 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).

## Media coverage

- Stewart et al. (2018) highlighted in [UvA press release](#), [Phys.Org](#), [Aurus](#), among others.
- Shark Year Magazine (USA) featured reef manta ray demography in Smallegange et al. (2016).
- 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.
- 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.

## Academic leadership, services and management

- 2019 – present **Recommender** for [PCI Entomology](#)
- 2018 – present **Elected Chair** of the Faculty of Science Works Council (UvA)
- 2018 – present **Mentor**, Women in Science, British Ecological Society
- 2018 – present **Associate Editor** for *Functional Ecology*
- 2013 – present **Subject Editor** for *Oikos*
- 2018 – 2019 **Chair** Scientific Advisory Council at the IBED (UvA)
- 2017 – 2018 **Co-founder** 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

- 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)
- 2012 – present **Member** of Peerage of Science
- 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 for Smallegange group (2 PhD students; 1 Post Doc), de Roos group (1 PhD student; 2 Post Docs), Shamoun-Baranes group (2 PhD students)
- 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](http://www.f1000biology.com))
- 2009 – 2012 **Search Committee** Coulson group (2x PhD student; 1x Post Doc) (Imperial College)
- 2004 **Member** of the Statistics Committee at the Netherlands institute for Sea Research
- 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

## Publication List

- The median impact factor (IF) of the peer-reviewed journals that I have published in is 2.80, which is 37% higher than the median IF in the field of Ecology and Evolutionary Biology.
- Total number of citations: 837; h-index: 16 (Google citations –August 2019)
- RG score on ResearchGate: 31.9 (higher than 88% of members); I have 131 followers.

### Peer-reviewed publications

<sup>(i)</sup> invited contribution (8x);

BSc, MSc and PhD students are underlined;

\* corresponding author; § shared first authorship

- 48 <sup>(i)</sup> **Smallegange IM\***<sup>§</sup>, Rhebergen FT<sup>§</sup>, 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: DOI: 10.1016/j.cois.2019.08.005
- 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 <sup>(i)</sup> 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 <sup>(i)</sup> **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 <sup>(i)</sup> 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 <sup>(i)</sup> **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 <sup>(i)</sup> **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 <sup>(i)</sup> **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 <sup>(i)</sup> **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**In preparation (submission within the next three months)*

- o Rhebergen FT, **Smallegange IM**. Condition-dependent costs of development maintain facultative expression of a male weapon.
- o Deere JA, Coulson T, **Smallegange IM**. Unsuccessful dispersal affects life history characteristics of natal populations: combined effects of coloured environmental noise and unsuccessful dispersal on stochastic growth rate.
- o Deere JA, van den Berg I, Roth G, **Smallegange IM**. A modelling exercise to show why population models should incorporate distinct life-histories of dispersers.  
<http://biorxiv.org/cgi/content/short/402198v1>

**Other publications***Popular science*

- o **Smallegange IM**. 2011. Waddenacademieprijs voor 'afhaalchinees' in de Waddenzee. *De Waddenacademie – KNAW Jaarverslag 2009 & 2010*. p. 52-53 (in Dutch)
- o **Smallegange IM**. 2007. Experimenten met Strandkrabben. *Kunst en Wetenschap* (Dec. issue): p. 9-10 (in Dutch)

*PhD thesis*

**Smallegange IM**. 2007. Interference competition and patch choice in foraging shore crabs. *PhD thesis*. University of Amsterdam, The Netherlands. ISBN 978-90-7689474-4. 292 pp

*Conference abstract*

Riebel K, **Smallegange IM**, Terpstra NJ, Bolhuis JJ. 2001. Female and male zebra finch siblings do not differ in their adult preferences for the father's song. *Advances in Ethology* 36:251