

Curriculum Vitae

Personal details

Official name Dr. Johanna Adriana Caroline de Bruijn
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Personal profile

Researcher with expertise in the fields of ecology, behaviour, entomology and biological control. Experience with both fundamental and applied research with national and international collaborators from universities and companies. Independent, flexible and creative worker with excellent writing, communication and organisational skills. Ambitious and result driven with a passion for the development of sustainable (circular) agriculture.

Education

2015 - 2020 Wageningen University
Doctor of Philosophy, certificate obtained on 04-02-2020

2011 - 2014 Wageningen University
Master of Science Biology

Specialisation Animal Adaptation and Behavioural Biology
Minor Behavioural Ecology and Biological Control of Insects

Master thesis Linking body size to learning performance: a high-throughput T-maze design for *Trichogramma evanescens*
July – Jan. 2013

Internship *Amblypelta nitida* (Hemiptera: Coreidae)
June – Nov. 2013 response to geotaxis and visual stimuli: implications for the design of monitoring traps (CSIRO, Australia)

2008 - 2011 Wageningen University
Bachelor of Science Biology

Specialisation Ecology and Biodiversity

Work experience

2024 - 2025 Postdoctoral Research Fellow on insect chemical ecology in the Anthropocene at the University of Southern Queensland.

2021 - 2024 Researcher in the New Solutions team at the R&D macrobials department at Koppert Biological Systems.

2019 - 2020 Postdoctoral position on “Boosting the efficacy of biological control agents of citrus mealybugs through learning”, at the Netherlands Institute of Ecology (NIOO-KNAW).

2015 - 2019 PhD position on “Information reliability shaping parasitoid foraging behaviour”, at the Laboratory of Entomology at the Wageningen University.

Submitted grants

- 2025 GRDC Proof of concept proposal on Sustainable integrated pest management for the suppression of fall armyworm (*Spodoptera frugiperda*), rejected.
- 2021 Lead-writer of the honoured PPS project proposal LWV20.080 – Slimme sluiwespen, effectieve biologische bestrijding.

Additional activities and interests

- 2014 - 2016 Participant of the butterfly monitoring project of the Dutch Butterfly Foundation.
- 2014 - 2015 Member KNNV PR and activities committee, nature guide, organiser and presenter of the lecture series Ecology of Dutch Insects.
- 2014 - 2015 IVN voluntary nature guide for children.

Publications

De Bruijn, J.A.C., Kostenko, O., Kruidhof, H.M., Smid, H.M., Đurović, G., Vet, L.E.M., and de Boer, J.G. (submitted). Effectiveness of different conditioning methods to improve host searching of commercially sold mealybug parasitoids.

De Bruijn, J.A.C., Vet, L.E.M., Smid, H.M. and de Boer, J.G. (2022). Effects of oviposition in a non-host species on foraging behaviour of the parasitoid *Cotesia glomerata*. *Ecological Entomology*, manuscript accepted. <https://doi.org/10.1111/een.13151>

De Bruijn, J.A.C., Vet, L.E.M., Smid, H.M. and de Boer, J.G. (2021). Memory extinction and spontaneous recovery shaping parasitoid foraging behavior. *Behavioral Ecology* 32.5, 952–960. <https://doi.org/10.1093/beheco/arab066>

De Bruijn, J.A.C., Vosteen, I., Vet, L.E.M., Smid, H.M., and de Boer, J.G. (2021) Multi-camera field monitoring reveals costs of learning for parasitoid foraging behaviour. *Journal of Animal Ecology* 90.7, 1635-1646. <https://doi.org/10.1111/1365-2656.13479>

De Bruijn, J.A.C. (2020). PhD thesis: Information Reliability Shaping Parasitoid Foraging Behaviour. *Wageningen University and Research ProQuest Dissertations Publishing*. 2020. 28450814

De Bruijn, J.A.C., Vet, L.E.M., Jongsma, M.A., and Smid, H.M. (2018). Automated high-throughput individual tracking system for insect behavior: Applications on memory retention in parasitic wasps. *Journal of Neuroscience Methods* 309, 208-217. <https://doi.org/10.1016/j.jneumeth.2018.09.012>

De Bruijn, J.A.C., Vet, L.E.M., and Smid, H.M. (2018). Costs of Persisting Unreliable Memory: Reduced Foraging Efficiency for Free-Flying Parasitic Wasps in a Wind Tunnel. *Frontiers in Ecology and Evolution* 6. <https://doi.org/10.3389/fevo.2018.00160>

Skills

- Languages: Dutch as native language
Engels fluent in word and writing
German basic in word and writing
- Other certificates: Driving license B (Dutch)
- Software skills: Microsoft Office: Word, PowerPoint, Excel
Statistical software: SPSS, R
Graphic design software: Inkscape, SketchUp, Adobe creative cloud
Noldus behavioural software: The Observer XT and Pocket Observer
Data management software: Electronic Laboratory Notebook (ELabNext)