

Personliga Uppgifter

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Nuvarande Anställning

2014–2016 Lunds Universitet—Postdoktor (Funktionell Zoologi)

Projekt: “**Polarisationsorienteringens Ultimata Begränsningar**”

Handledare: Dr Marie Dacke

Finansiering: Knut and Alice Wallenbergs Stiftelse. “Ultimate Vision”.

Carl Tryggers Stiftelse (CTS15:180).

“Sky Compass Orientation from a New Perspective”

Utbildning

2010–2014 University of Bristol—**PhD** Thesis (School of Biological Sciences)

Titel: “**Functions of Animal Polarization Sensitivity**”

Handledare: Prof. Julian C. Partridge & Dr Nicholas W. Roberts

Tilldelas: 2015/01/06

2008–2009 University of Bristol—**MRes** i Vision Science (**Distinction**)

Projekt: “**Polarisation Vision in Dragonfly Larvae**” (78%)

“Combined Camouflage & Warning Colouration” (77%)

Enheter: Foundations of vision (75%)

Matlab for the behavioural sciences (72%)

Statistics (70%)

Current issues in vision (65%)

2005–2008 University of Bristol—**BSc** i Zoologi (**1st Class**)

2000–2005 Cranleigh School, Surrey, U.K.—A Level: Biology, Mathematics, French

Publicerade Originalartiklar

- Foster, J. J.**, Sharkey, C. R., Gaworska, A. V., Roberts, N. W., Whitney, H. M. & Partridge, J. C. (2014). **Bumblebees Learn Polarization Patterns**. *Current Biology* 24(12) 1415–1420; <http://dx.doi.org/10.1016/j.cub.2014.05.007>
- El Jundi, B., **Foster, J. J.**, Byrne, M. J., Baird, E. & Dacke, M. (2015). **Spectral information as an orientation cue in dung beetles**. *Biology Letters*, 11(11), 20150656; <http://dx.doi.org/10.1098/rsbl.2015.0656>
- El Jundi, B., **Foster, J. J.**, Khaldy, L., Byrne, M. J., Dacke, M., & Baird, E. (2016). **A Snapshot-Based Mechanism for Celestial Orientation**. *Current Biology*, 26(11) 1456–1462; <http://dx.doi.org/10.1016/j.cub.2016.03.030>

Abstracts vid Konferenser

- Foster J. J.**, El Jundi, B., Byrne, M. J. & Dacke, M. (2016) Stellar Orientation with a Small Mind—How a Beetle Sees the Milky Way. *Twelfth International Congress on Neuroethology*
- Foster J. J.**, Sharkey C. R., Whitney H. M., Roberts N. W., Partridge J. C. (2013) Bees, Flowers and Polarization. *International Conference on Invertebrate Vision*
- Foster, J. J.**, Sharkey, C. R., Whitney, H. M., Roberts, N. W. & Partridge, J. C. (2012) Bees and Flowers: Polarization Sensitivity and Signals. *Tenth International Congress on Neuroethology*
- Foster, J. J.**, Sharkey, C. R., Whitney, H. M., Roberts, N. W. & Partridge, J. C. (2011) Polarized Light and Bumblebee Learning: the Foxglove's Secret. *Rank Prize Symposium on Visual Optics and Photoreception*
- Foster, J. J.** & Partridge, J. C. (2009) Polarization Vision in Dragonfly Larvae. *Bristol Vision Institute Young Researchers' Colloquium*

Priser och Stipendier

2016/01/13	Postdoctoral Stipend CTS15:180—Carl Tryggers Stiftelse	276 000 SEK
2014/11/28	Postdoctoral Stipend CTS14:95—Carl Tryggers Stiftelse	240 000 SEK
2014/11/12	Travel Grant —Kungliga Fysiografiska Sällskapet	11 900 SEK
2012/02/28	Travel Grant —Alumni Foundation, University of Bristol	5 085 SEK (£400)
2011/04/28	First Prize for <i>Best Student Poster</i> , ASAB Easter Meeting	
2011/04/26	ASAB Conference Grant —Association for Study of Animal Behaviour	
2011/60/26	Travel Grant —Rank Prize Fund for Optoelectronics	889 SEK (£70)
2011/03/21	Best Poster (Biological Sciences), <i>Nat. Systems poster session</i> —University of Bristol	
2010/04/09	University of Bristol Postgraduate Research Scholarship	528 991 SEK (£41 589)

Handledare till

2015/01–12 Johan Ahlgren (Masters Project) <http://lup.lub.lu.se/student-papers/record/8567534>

Fältarbeten

2016/01–02 **Nicama Lodge** Limpopo province, South Africa.

Projekt: “Strategies for Low-Contrast Stellar Orientation”

2015/11–12 **Stonehenge Game Reserve** North-West province, South Africa.

Projekt: “Sky Compass Orientation from a New Perspective”

2015/01–02 **Stonehenge Game Reserve** North-West province, South Africa.

Projekt: “The Role of Contrast in Stellar Orientation by Nocturnal Dung Beetles”

2013/06–07 **Lizard Island Research Station** Great Barrier Reef, Australia.

Projekt: “The Effect of Polarization Angle on Visual Contrast in Blue-Green Chromis”

2012/05–06 **Lizard Island Research Station** Great Barrier Reef, Australia.

Projekt: “Damsels in Distress—Looming Stimuli and Polarization Sensitivity in Damselfish”

Skills

Teaching/public engagement

- Laboratory demonstrator, undergraduate practical classes, University of Bristol (2010–2013)
- Bristol Botanic Garden Bee Festival (Sept 2010, 2011).
- Public engagement, motion camouflage. The Galleries, Bristol (2010).

Computer literate

- Confident with **statistical programming** in R, particularly mixed-effects modelling.
- **Image processing** in Matlab (& Octave) and ImageJ.
- Very capable with LaTeX, Mendeley, Microsoft Word and Excel.

Animal husbandry

- Experienced in care, collection and handling of reef fish, Crustacea, bees, beetles and aquatic insects
- Aquarium maintenance

Other Qualifications

- Conversational and written French (A-level), Spanish (AS-level), and Swedish (SFU level 3).
- UK Driver’s licence

Referees

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