

Complete list of publications of Rachael Stentiford - as of March 2026

1. **Stentiford R**, Harrap MJM, Titov VV, Lochner S, Straw AD (2026) Precise, individualized foraging flights in honeybees revealed by multicopter drone-based tracking. *Current Biology*. 1320-1328.e3 doi: 10.1016/j.cub.2026.01.045
2. **Stentiford R**, Knight JC, Nowotny T, Philippides A, Graham P (2024) Estimating orientation in natural scenes: A spiking neural network model of the insect central complex. *PLoS Comput Biol* 20(8): e1011913. doi: 10.1371/journal.pcbi.1011913
3. **Stentiford R**, Knowles TC, Feldotto B, Ergene D, Morin FO, Pearson MJ (2022) Integrating Spiking Neural Networks and Deep Learning Algorithms on the Neurorobotics Platform. In *Conference on Biomimetic and Biohybrid Systems* (pp. 68-79). Cham: Springer International Publishing.
4. **Stentiford R**, Knowles TC, Pearson MJ (2022) A Spiking Neural Network Model of Rodent Head Direction Calibrated With Landmark Free Learning. *Front Neurobot*. 16:867019. doi: 10.3389/fnbot.2022.867019
5. Knowles TC, **Stentiford R**, Pearson MJ (2021) WhiskEye: A Biomimetic Model of Multisensory Spatial Memory Based on Sensory Reconstruction. In: Fox, C., Gao, J., Ghalamzan Esfahani, A., Saaj, M., Hanheide, M., Parsons, S. (eds) *Towards Autonomous Robotic Systems. TAROS 2021. Lecture Notes in Computer Science*, vol 13054. Springer, Cham. doi: 10.1007/978-3-030-89177-0_43
6. **Stentiford R**, Cerminara NL (2019) Timing Rewarding Movements. *Neuron* 103(3):358-360. doi: 10.1016/j.neuron.2019.07.024 (Preview)
7. Harland B, Grieves RM, Bett D, **Stentiford R**, Wood ER, Dudchenko PA (2017) Lesions of the Head Direction Cell System Increase Hippocampal Place Field Repetition. *Curr Biol*. 27(17):2706-2712.e2. doi: 10.1016/j.cub.2017.07.071.