### **Education**

2010 – 2013 OB.A. (Hons) Natural Sciences, University of Cambridge, UK.

# **Professional Appointments**

2022 - · · · · Assistant Professor, Department of Biosciences, Durham University, UK.

2019 – 2021 • Postdoctoral Researcher, Princeton University, USA. PI: Prof David Wilcove.

2019 • Postdoctoral Researcher, University of Florida, USA. PI: Dr Brett Scheffers.

## **Research Publications (selected)**

My h-index = 12, i10-index = 12, and total citations = 3004 (as per Google Scholar Citations).

- Lembrechts, J. J., van den Hoogen, J., Aalto, J., Ashcroft, M. B., ..., Senior, R. A., ... Lenoir, J. (2021). Global maps of soil temperature. Global Change Biology, n/a(n/a). https://doi.org/https://doi.org/10.1111/gcb.16060
- Lembrechts, J. J., Aalto, J., Ashcroft, M. B., Frenne, P. D., ..., Senior, R. A., ... Nijs, I. (2020). SoilTemp: A global database of near-surface temperature. *Global Change Biology*, n/a(n/a). https://doi.org/10.1111/gcb.15123
- **Senior**, **R. A.** (2020). Hot and bothered: The role of behaviour and microclimates in buffering species from rising temperatures. *Journal of Animal Ecology*.
- Jucker, T., Jackson, T., Zellweger, F., Swinfield, T., ..., Senior, R. A., ... Coomes, D. A. (2019). A research agenda for microclimate ecology in human-modified tropical forests. Frontiers in Forests and Global Change, 2. https://doi.org/10.3389/ffgc.2019.00092
- **Senior**, **R. A.**, Hill, J. K., & Edwards, D. P. (2019a). Global loss of climate connectivity in tropical forests. *Nature Climate Change*.
- **Senior**, **R. A.**, Hill, J. K., & Edwards, D. P. (2019b). ThermStats: An R package for quantifying surface thermal heterogeneity in assessments of microclimates. *Methods in Ecology and Evolution*.
- **Senior**, **R. A.**, Hill, J. K., Benedick, S., & Edwards, D. P. (2018). Tropical forests are thermally buffered despite intensive selective logging [*Cover article*]. *Global Change Biology*.
- Scheffers, B. R., Edwards, D. P., Macdonald, S. L., Senior, R. A., Andriamahohatra, L. R., Roslan, N., ... Williams, S. E. (2017). Extreme thermal heterogeneity in structurally complex tropical rain forests. *Biotropica*, 49(1), 35–44. https://doi.org/10.1111/btp.12355
- 9 Senior, R. A., Hill, J. K., González del Pliego, P., Goode, L. K., & Edwards, D. P. (2017). A pantropical analysis of the impacts of forest degradation and conversion on local temperature. *Ecology and Evolution*.
- Magrach, A., Senior, R. A., Rogers, A., Nurdin, D., Benedick, S., Laurance, W. F., ... Edwards, D. P. (2016). Selective logging in tropical forests decreases the robustness of liana–tree interaction networks to the loss of host tree species. *Proc. R. Soc. B*, 283(1826), 20153008. https://doi.org/10.1098/rspb.2015.3008
- Newbold, T., Hudson, L. N., Hill, S. L. L., Contu, S., Lysenko, I., **Senior**, **R. A.**, ... Purvis, A. (2015). Global effects of land use on local terrestrial biodiversity. *Nature*, 520(7545), 45–50. https://doi.org/10.1038/nature14324

# **Grants and Awards (selected)**

- 2022 Anglo-Omani Society (£6,000), for fieldwork & workshops with Oman Botanic Garden
- ACCE Extension for Publication (£3,600), to prepare & submit a high impact manuscript
  - ♦ British Ecological Society travel grant (£500), to attend ATBC Annual Meeting
- 2016 ACCE Placement Support (£1,500), 3-month placement at Rewilding Britain, UK
  - Departmental travel fund (£800), to attend Conservation Asia 2016

### **Invited Talks**

- o Global patterns of conservation action and inaction, Cambridge Conservation Initiative, Cambridge, UK.
- Using technology and open data to understand problems and provide solutions in conservation,
  Yale University, USA.
  - Connectivity under climate change in tropical forests, ESA 2020, Salt Lake City, USA\*.
- of Florida, USA.
- 2017 ♦ Thermal Images in R, Sheffield R Users Group, Sheffield, UK.
- 2016 Are selectively logged forests climate change ready?, Future Cities Laboratory, Singapore.

### **Conferences**

- Senior, R. A., & Wilcove, D. S. (2019). Effectiveness of different conservation strategies for recovering threatened species. Oral presentation at BES Annual Meeting.
- Senior, R. A., Hill, J. K., & Edwards, D. P. (2018a). Global loss of climate connectivity in tropical forests. Oral presentation at ATBC Annual Meeting.
- 3 Senior, R. A., Hill, J. K., & Edwards, D. P. (2018b). Global loss of climate connectivity in tropical forests. Oral presentation at SCCS Europe.
- 4 Senior, R. A., Hill, J. K., & Edwards, D. P. (2017). Microclimates in logged tropical forest. Oral presentation at SCCS Cambridge.
- Senior, R. A., Hill, J. K., & Edwards, D. P. (2016a). Are degraded forests climate change ready? [Shortlisted for best student talk]. Oral presentation at Conservation Asia 2016, joint meeting of the Society for Conservation Biology (SCB) Asia section; the Association for Tropical Biology; Conservation (ATBC) Asia-Pacific chapter. National University of Singapore, Singapore.
- **Senior**, **R. A.**, Hill, J. K., & Edwards, D. P. (2016b). *Are degraded forests climate change ready?* Oral presentation at ACCE Annual Meeting.
- Senior, R. A., Hill, J. K., & Edwards, D. P. (2015). Impacts of selective logging on thermal heterogeneity in a tropical rainforest [Shortlisted for best student poster]. Poster presentation at BES Annual Meeting. Edinburgh, UK.

#### **Service**

Invited peer review

⋄ Agricultural and Forest Meteorology ⋄ Biological Conservation Current Landscape Ecology Reports ⋄ Ecography Environmental Conservation ⋄ Environmental Management Environmental Research Letters ⋄ Forest Ecology and Management Frontiers in Forests and Global Change ⋄ Global Change Biology Global Ecology and Biogeography ⋄ Global Ecology and Conservation Global Environmental Change ⋄ Journal of Animal Ecology Landscape Ecology ⋄ Methods in Ecology and Evolution Nature Ecology & Evolution ⋄ PeerJ ⋄ Plant Ecology & Diversity PLOS ONE ⋄ The Lancet Planetary Health ⋄ Thermal Biology

Invited grant review

♦ UKRI Future Leaders Fellowship

Conference Organisation

Steering Committee, 2023 Species on the Move conference

Professional affiliations

British Ecological Society member (BES)
 Royal Geographical Society fellow (RGS)