

Prof. Dr. Christian C. Voigt

Personal Details

Affiliations	Leibniz Institute for Zoo and Wildlife Research (IZW) Head of Department Evolutionary Ecology Lecturer at Freie Universität Berlin
Web	https://www.izw-berlin.de/en/christian-voigt-en.html ORCID 0000-0002-0706-3974

Profile

Christian C. Voigt is head of the Department Evolutionary Ecology at the Leibniz Institute for Zoo and Wildlife Research (Leibniz-IZW) and currently Associate Professor at the Freie Universität Berlin. He received a Diploma and Doctoral degree at the University of Erlangen-Nuremberg. For his doctoral degree he worked on the energetics of nectar-feeding bats. His postdoc research at Boston University and Cornell University focused on the sociobiology and olfactory communication of bats. After returning to Germany, he became a senior research scientist at the Leibniz-IZW. In 2008, he received his Habilitation at the Humboldt University of Berlin. As of 2022, Christian's academic work integrates across scales, bridging the cellular, the organismic and the landscape level. Accordingly, he uses a wide variety of methods ranging from behavioural observations to respirometry, stable isotopes, and spatial tracking. Nowadays, he is working mostly on questions related to the movement ecology and conservation of bats with a special focus on migratory bats, light pollution and wind energy production. Ultimately, he is interested in transforming human-wildlife conflicts into coexistence. Therefore, besides studying wildlife species he also seeks to better understand the human dimensions of conflicts.

Academic Training

2007	Habilitation in Zoology, Humboldt-Universität Berlin (HU Berlin)
1998	Dr. rer. nat. in Zoology, Universität Erlangen-Nürnberg
1993	Diploma in Biology, Universität Erlangen-Nürnberg

Professional Experience

2018-present	Head of Department Evolutionary Ecology
2006-present	Head of stable isotope laboratory at Leibniz-IZW
2001-present	Research scientist at Leibniz-IZW
1999-2000	Postdoc at Boston University and Cornell University, USA

Cooperations with other Institutions and Consultancy in Committees (selected)

Reviewer Deutsche Forschungsgemeinschaft, Alexander-von-Humboldt-Stiftung, National Science Foundation among others, scientific advisor for UNEP/EUROBATS, member of IUCN bat specialist group

Editorial Activities

Editorial board member *Movement Ecology* (2019-present), *Oecologia* (2012-present), *Behavioral Ecology and Sociobiology* (2011-2015), *Journal of Mammalogy* (2006-2011)

Professional Services

Head of Department Evolutionary Ecology (Leibniz-IZW, since 2018), external member of faculty Humboldt Universität Berlin (2007-2009), external member of faculty Freie Universität Berlin (2009-present)

Honours, Awards, Nominations, Special Appointments (selected)

Promotionsstipendium der Studienstiftung des Deutschen Volkes, NATO Postdoc-Fellowship for the USA, Gerrit Miller Jr award for outstanding service and contributions to bat research, SpringerNature editorial service award

Funding Activities (selected, last 5 years)

BMBF "Videt: den Forschungsprozess vermitteln – ein videobasiertes Transferinstrument für Schülerinnen und Schüler (3.3 Mio €; Anteil 418.069 €), Deutsche Bundesstiftung Umwelt „Ökologisch nachhaltige Windenergieproduktion im Wald (190.540 €), DFG (Research training group Biomove (P05, 343.000 €), Deutsche Bundesstiftung Umwelt „Identifikation von Fledermausattraktoren an Windkraftanlagen“ 338.800 €). Leibniz SAW competitive funds „Fuel selection in migratory bats“ (487.400 €)

Publications (selected)

M. Roeleke, U.E. Schlägel, C. Gallagher & **C.C. Voigt** (2022). Insectivorous bats form mobile sensory networks to optimize prey localization: The case of the common noctule bat. *Proc. Natl. Acad. Sci. U.S.A.* 119(33):e2203663119.

Ellerbrok, J. S., Delius, A., Peter, F., Farwig, N., & **Voigt, C. C.** (2022). Activity of forest specialist bats decreases towards wind turbines at forest sites. *Journal of Applied Ecology* 59:2497– 2506. <https://doi.org/10.1111/1365-2664.14249>.

C. Reusch, M. Lozar, S. Kramer-Schadt & **C. C. Voigt** (2022). Coastal onshore wind turbines lead to habitat loss for bats in Northern Germany. *J. Environ. Manage.* 310:114715.

Milano, S., Frahnert, S., Hallau, A., Töpfer, T., Woog, F., & **Voigt, C. C.** (2021). Isotope record tracks changes in historical wintering ranges of a passerine in sub-Saharan Africa. *Global Change Biology* 27:5460-5468. <https://doi.org/10.1111/gcb.15794>.

C.C. Voigt, et al. (2021). The impact of light pollution on bats varies according to foraging guild and habitat context. *BioScience* 71(10):1103-1109.

Lindecke, O., Holland, R.A., Pētersons, G. et al. (2021). Corneal sensitivity is required for orientation in free-flying migratory bats. *Commun Biol* 4:522. <https://doi.org/10.1038/s42003-021-02053-w>.

T. M. Straka, M. Fritze, **C. C. Voigt** (2020). The human dimensions of a green–green-dilemma: Lessons learned from the wind energy – wildlife conflict in Germany. *Energy Reports* 6:1768–1777.

S.E. Currie, A. Boonman, S. Troxell, Y. Yovel, **C.C. Voigt** (2020). Echolocation at high intensity imposes metabolic costs on flying bats. *Nature Ecol. Evol.* 4(9):1174-1177.

Lindecke O., Elksne A., Holland R.A., Pētersons G., **Voigt C. C.** (2019). Experienced Migratory Bats Integrate the Sun's Position at Dusk for Navigation at Night. *Curr Biol.* 29(8):1369-1373.e3. doi: 10.1016/j.cub.2019.03.002.

C.C. Voigt, et al. (2019). Movement responses of common noctule bats to the illuminated urban landscape. *Landsc. Ecol.* 35(1):189-201.