-	<b>ition: Postdoctoral Research Fellow</b> , Leibniz Institute for Zoo and Wildlife R 17, 10315 Berlin	esearch, Alfred-
Education	<b>Ph.D. (Chancellor's Doctoral Research Medal)</b> <i>University of New England (UNE)</i> Advisor: Prof. Fritz Geiser Thesis: "Cardiorespiratory function and metabolism of heterothermic bats"	<b>2015</b> Armidale, Australia
	<b>B.Sc. Research Honours (Zoology)</b> University of Western Australia	<b>2009</b> Perth, Australia
	<b>B.Sc. (Zoology/Conservation Biology)</b> University of Western Australia	<b>2007</b> Perth, Australia
	Alexander von Humboldt Postdoctoral Research Fellow Leibniz Institute for Zoo and Wildlife Research Advisor: PD Dr Christian Voigt "Mapping the energetic constraints of urban bats- Heart rate, acceleration and energy expenditure from torpor to flight"	- Sep 2017-June 2019 Berlin, Germany
	<b>Postdoctoral Research Fellow</b> Sagol School of Neuroscience/Department of Zoology- Tel Aviv University Advisor: Dr Yossi Yovel "Energetics of flight- Using stable isotopes to validate the heart rate method in free-flying bats"	<b>Apr 2016-Aug 2017</b> Tel Aviv, Israel
	<b>Research Assistant</b> <i>Centre of Excellence for Behavioural and Physiological Ecology UNE</i> Energetic and thermal responses and foraging of small marsupials to fires. Thermal biology of free-ranging subtropical bats. Cold tolerance and roosting biology of temperate zone bats.	<b>Apr-Jul 2015</b> Armidale, Australia
	<b>Field Assistant</b> <i>School of Environmental and Rural Sciences UNE</i> Birds and bats as insect pest management on cotton farms.	<b>Mar 2015</b> Boggabri, Australia
	<b>Field Assistant Internship</b> <i>Wild CRU/Edward Grey Institute Oxford University</i> Social networking, migration and disease transfer amongst bats. Breeding biology of tit populations in Wytham Woodland.	<b>Mar-Jul 2010</b> Oxford, UK
Teaching Experience	<b>Associate Lecturer</b> <i>Biology of Bats- Freie Universität</i> 25% lecturer for the graduate course on the Physiological Ecology of bats.	<b>2018- Current</b> Berlin, Germany
	<b>Associate Lecturer</b> <i>Behavioral Ecology- Freie Universität</i> 50% lecturer for the graduate course on Behavioural Ecology.	<b>2017- Current</b> Berlin, Germany
	<b>Invited Lecturer</b> <i>Biology of Desert Bats- Ben Gurion University of the Negev</i> Invited lecture on physiology of hibernation and torpor in bats.	<b>2016</b> Sde Boker, Israel
	Associate Lecturer (Course Coordinator) Ecological and Comparative Physiology- University of New England	<b>2013</b> Armidale, Australia

Primary lecturer and course coordinator for final level undergraduate course (ZOOL327). Developed course material, designed and organized intensive research schools for off campus students and weekly laboratory classes for on campus students to illustrate course concepts for the thermal biology section of the two-part course.		
Lab Demonstrator/Teaching Assistant School of Science and Technology- University of New England Led practical sessions and assessed essays for large classes (100+) first year undergraduate students in the course Introductory Biology (BIOL110).	<b>2011-2013</b> Armidale, Australia	
Lab Demonstrator/Teaching Assistant School of Science and Technology- University of New England Taught the laboratory section of second year undergraduate courses Introductory Physiology I (PSIO210) and Introductory Physiology II (PSIO220). Presented lab demonstrations and tutorials during weekly classes and intensive schools. Assessed laboratory reports and essays for up to 50 students per class each year.	<b>2011-2012</b> Armidale, Australia	
Principles of Aseptic Surgery in Small Laboratory Animals Boxhill Institute	<b>2013</b> Melbourne, Australia	
Alexander von Humboldt European Research Stay for Lund University, Sweden (2018) Alexander von Humboldt Postdoctoral Research Fellowship, Alexander von Humboldt Foundation/Leibniz Institute for Zoo and Wildlife Research, Berlin (2017-2019) Sagol School of Neusroscience Postdoctoral Research Fellowship, Tel Aviv University (2016- 2018) School of Biology Postdoctoral Research Fellowship, Tel Aviv University (2016) Chancellor's Medal for Outstanding Graduate Research, University of New England (2015) Australian Postgraduate Award, University of New England (2011-2014) PhD Completion Scholarship, University of New England (2014) Higher Degree Research Fund, School of Environmental and Rural Sciences (2011-2014) Best Student Presentation Prize, International Bat Research Conference, Costa Rica (2013) Winner Three Minute Thesis Competition (3MT) and National Finalist (2011/2012) 3MT Travel Fund, School of Environmental and Rural Sciences (2011)		

## LIST OF PUBLICATIONS

## Peer Reviewed:

Hume, T, Geiser, F, Körtner G, **Currie SE** & Stawski, C (2019) Responding to the weather: energy budgeting in a small mammal in the wild Current Zool.

Voigt, CC, Rosner, E, Guglielmo, CG, **Currie SE** (2019) Fatty acid profiles of the European migratory common noctule bat (*Nyctalus noctula*) The Science of Nature.

**Currie SE,** Méné-Saffrané L, & Fasel N (2019) Valuable carcasses: post-mortem preservation of fatty acid composition in heart tissue. Cons. Physiol. 7(1), doi 10.1093/conphys/coz005

Boukens B, Kristensen D, Filogonio R, Carreira L, Sartori M, **Currie SE**, Abe AS, Joyce W, Conner J, Opthof T, Crossley II D & Jensen B (2018) The electrocardiogram of vertebrates: evolutionary changes from ectothermy to endothermy. Prog. Biophys. Mol. Bio. doi:10.1016/j.pbiomolbio.2018.08.005

**Currie SE** (2018) No effect of season on the electrocardiogram of long eared bats (*Nyctophilus gouldi*) during torpor. J. Comp. Physio. B. doi:10.1007/s00360-018-1158-1

Voigt CC, **Currie SE,** Fritze M, Roeleke M & Lindecke O (2018) Conservation strategies for bats flying at high altitudes. Bioscience. doi:10.1093/biosci/biy040

**Currie SE,** Stawski C & Geiser F (2018) Cold-hearted bats- Cardiac function and metabolism during torpor at subzero temperatures in *Chalinolobus gouldii*. J. Exp. Biol. doi:10.1242/jeb.170894

Doty, AC, **Currie, SE**, Stawski, C & Geiser, F (2018) Can bats sense smoke during deep torpor? Physiology & Behavior doi:10.1016/j.physbeh.2017.12.019

Stawksi C, Hume T, Körtner G, **Currie SE**, Nowack J & Geiser F (2017) Post-fire recovery of the behaviour and physiology of a small marsupial. Biol. Lett. doi:10.1098/rsbl.2017.0036

Stawski C, & **Currie, SE** (2016) Effect of roost choice on winter torpor patterns of a free-ranging insectivorous bat. Aus. J. Zool., 64(2), 132-137 doi:10.1071/ZO16030

Doty AC, Stawski C, **Currie SE**, Geiser, F (2016) Black or white? Physiological implications of roost colour and choice in a microbat. J. Therm. Biol., 60, 162-170 doi:10.1016/j.jtherbio.2016.07.015

**Currie SE**, Körtner G & Geiser F (2015) Measuring subcutaneous temperature and differential rates of rewarming from hibernation and daily torpor in two species of bats. Comp. Biochem. Physiol. A, 190, 26-31.

**Currie SE**, Noy KB & Geiser F (2015) Passive rewarming from torpor in hibernating bats: minimizing metabolic costs and cardiac demands. Am. J. Physiol. Reg. Integr. Comp. Physiol, 308, R34-R41. doi:10.1152/ajpregu.00341.2014

**Currie SE**, Körtner G & Geiser F (2014) Heart rate as a predictor of metabolic rate in heterothermic bats. J. Exp. Biol., 217, 1519-1524.

Geiser F, **Currie SE**, O'Shea KA, & Hiebert SM (2014) Torpor and hypothermia: reversed hysteresis of metabolic rate and body temperature. Am. J. Physiol. Reg. Integr. Comp. Physiol, 307, R1324-R1329 doi:10.1152/ajpregu.00214.2014

## Works Submitted and Works in Progress

**Currie SE,** Boonman, A, Troxell, S, Yovel, Y, Voigt CC (in review) The costs and limitations of maximal call intensities in echolocating bats. Proceedings of the Royal Society B.

Tatler, J, Currie SE, Casey, P, Scharf, A, Roshier, D, Prowse, TAA (submitted) Accelerometer informed

time-energy budgets reveal the importance of temperature to the activity of a wild, arid zone canid. Journal of Experimental Biology.

## **Conference Proceedings:**

**Currie SE** (2019) Electrophysiology of bat hearts. Gegenbaur Symposium on Integrative Biology. University of Leiden, The Netherlands. Jan 25 2019.

**Currie SE,** Yovel, Y (2017) The costs of flight- getting to the heart of the matter. Batsheva de Rothschild Workshop on Linking Mechanics and Physiology in Animal Flyers. Kfar Blum, Israel. March 12-15 2017.

**Currie SE**, Stawksi C, Geiser F (2016) Cardiac function and metabolism during torpor at subzero temperatures. The 15th International Hibernation Symposium in Las Vegas, USA July 31- August 5 2016. Proceedings p. 23

**Currie SE**, Körtner G & Geiser F (2015) Cold-hearted bats- Comparison of cardiac function and metabolism during torpor in two species of Australian bats. The 45<sup>th</sup> North American Symposium of Bat Research in Monterey, USA October 28-31 2015. Proceedings p. 23

**Currie SE**, Noy K, & Geiser F (2014) Passive rewarming reduces cardiac demands and energy expenditure in bats. The 31st Annual Meeting of The Australian and New Zealand Society for Comparative Physiology and Biochemistry in Armidale, Australia December 4-7 2014. Proceedings p. 27

**Currie SE**, Körtner G & Geiser F (2014) Heart rate and metabolism in heterothermic bats. The 5th International Symposium on the Physiology and Pharmacology of Temperature Regulation in Kruger National Park, South Africa September 7-12 2014 Proceedings p. 34

**Currie SE**, Körtner G & Geiser F (2013) Heart rates of subtropical blossom bats (Pteropodidae) during torpor. The 16th International Bat Research Conference and 43rd North American Symposium of Bat Research in San Jose, Costa Rica August 11-16 2013. Proceedings p.26

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