

Jill Shephard

ECOLOGIST | RESEARCH SCIENTIST | CONSULTANT

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Expert skills: Movement Ecology, Conservation Genetics, Ecotoxicology, Project Management

Education

a. Postgraduate

1998 – 2003

Doctor of Philosophy (Ecology) – Griffith University, QLD, Australia.
Thesis Title: A multi-scale approach to defining historical and contemporary factors responsible for the current distribution of the White-bellied Sea Eagle *Haliaeetus leucogaster* (Gmelin, 1788) in Australia.

1995 – 1997

Bachelor of Science in Australian Environmental Studies – 1st Class Honours (P/T) Griffith University, QLD, Australia.
Major: Ecology and Ecosystem Management
Thesis Title: Colonisation of Australia by the Monarch Butterfly *Danaus plexippus* L. (Lepidoptera: Nymphalidae), including a comparison with North America.

b. Tertiary

1993 - 1995

Bachelor of Science in Australian Environmental Studies – Griffith University, QLD, Australia
Majors: Ecology and Ecosystem Management; Environmental Planning.

1984 – 1987

Bachelor of Education – University of Tasmania
Majors: Physical Education K–12; Language K–7.

c. Additional Professional Development

- 2020 Species Distribution Modelling with Bayesian Statistics in R run through PR Statistics LTD (Scotland), 9th-13th Nov 2020.
- 2020 Drawing Nature, Science and Culture: Natural History Illustration 101 – EdX University of Newcastle.
- 2020 Leader Development – lead successful virtual teams. Murdoch Training Course 26 May 2020.
- 2019 Fast Track Your Impact – Course run by www.fasttrackimpact.com – Generate and Share Knowledge for the Greatest Impact, workshop at Murdoch University, Perth. 14th August 2019.
- 2017 Animal Movement Analysis Course – Production Ecology & Resource Conservation Graduate School, University of Amsterdam, Amsterdam. 2 – 7th July 2017.
- 2016 Innovative Tools for mapping and Modelling Species Distributions – Workshop – Pawsey Centre – Perth, Western Australia. 1 Dec 2016.
- 2014 Landscape Genetics Course – Online – US Spring Term, 15 Jan – 7 May 2014.
- 2012 Practical Metabolomics Course – 5 Days – GCMS and LCMS workflows – Advanced Mass Spectrometry Facility, Murdoch University. Dec 2012.
- 2012 ESRI Australia – ArcGIS Desktop II: Tools and Functionality. 11-13 Sept 2012
- 2011 StatUa Workshop Data Analysis using R – University of Antwerp, Belgium – 5 Days
- 2010 Workshop on Molecular Evolution – Cesky Krumlov, Czech Republic 10-22 Jan 2010 (2 Weeks)
- 2012 Animal Competency and Experience Registration – ACE Scientific Use of Animals Test – Murdoch University
- 2012 Safety in Science Workshop – Murdoch University

Key Competencies

- Highly developed project planning, problem solving and management skills – logistics, work schedules, budgets.
- Skilled and experienced team leader and mentor.
- Skilled collaborator with an established network in research, government, industry, NGO and other stakeholder groups both in Western Australia, nationally and internationally.
- Advanced data wrangling skills including SQL, Access, Excel, and seamless integration to R.
- Advanced data management – storage and retrieval, backup and archiving, data dictionaries, metadata.
- Advanced R statistical analysis and visualisation including workflow reproducibility with RMarkdown.
- Advanced GIS skills with ArcGIS and R; experience directly transferable to QGIS, GRASS etc.
- Advanced experience in ecological study design, research and sampling methods in traditional ecology, telemetry, DNA, ecotoxicology and camera trapping.
- Highly experienced science communicator – journal publication, report preparation, conference and other presentations, translation of science to a range of audiences.
- Highly experienced in applying for and implementing compliance requirements - scientific permits, ethics, data returns.
- “Big Picture Thinker” – innovative, outcome focussed, achievable and relevant project design.
- Very experienced field worker – terrestrial, marine, offshore islands, coastal including boat-based work. Very good 4WD and navigation skills in range of extreme environments. Wilderness first-aid training.

Employment History

July 2018 – Current	Senior Research Fellow (Level C, FTE 1.0) – Environment and Conservation Sciences Harry Butler Institute, Murdoch University, WA, Australia. Projects: 1) Telemetry tracking of black cockatoos to inform infrastructure development on the Swan Coastal Plain and southwest forests (Main Roads Western Australia Perth Transport Authority Iluka Resources); 2) Impacts of forestry clearing on endangered Carnaby’s Cockatoo addressed using GPS telemetry (Forest Products Comm. WA); 3) Reduction of mining impacts on threatened Palm Cockatoos using GPS technologies and Species Distribution Modelling (Rio Tinto – Weipa, QLD; 2017-2020); 4) Quantitation and reduction of roost site disturbance on endangered Red tailed black cockatoos in urban/industrial landscapes on the Swan Coastal Plain (MKSEA Pty Ltd). HDR supervision across a range of projects (N=8)
Feb 2017 – June 2018	Ecology Lecturer (Level B6, P/T) and Research Fellow (P/T) Environmental and Conservation Sciences, School of Veterinary and Life Sciences, Murdoch University, WA, Australia.
Feb 2017 – Dec 2020	Shephard Research and Consulting – Principal (ABN 57 955 371 732) Projects: 1) Marine Protected Area Management informed by GPS Telemetry in Seabird Species and Oceanographic correlates. 2) Species Distribution Modelling of threatened Palm Cockatoos and Endangered Red Goshawk (Rio Tinto – Weipa, QLD; 2017-2020). 3) Human-Wildlife conflict resolution in urban and agricultural landscapes – Corella management using conditioned aversion therapy (Geraldton City Council). 4) Night Parrot – reanalysis of GPS data using resource selection modelling (Adaptive NRM, QLD).
Jan 2014 – Feb 2017	Ecology Lecturer (Level B6) 3 Year Fixed Term FTE 1.0 Affil. Researcher - Murdoch Conservation Medicine Research Group Environmental and Conservation Sciences, School of Veterinary and Life Sciences Murdoch University, WA, Australia.
Feb 2012 – Jan 2014	Wildlife Forensics & Genetics Lecturer (Level B5) 2 Year Fixed Term FTE 1.0 Environmental and Conservation Sciences, School of Veterinary and Life Sciences, Murdoch University, WA, Australia.

Dec 2007 – Feb 2012	Postdoctoral Research Fellow - Centre for Research and Conservation - The Royal Zoological Society of Antwerp (Antwerp Zoo), Belgium. Specialisation: Population, Conservation and landscape genetics Sat. tracking and GIS based spatial modelling Demographic studies Captive Breeding Programs advisor. Projects: Translocation effects on population genetic and spatial demography of threatened and other species including European White Stork, Eurasian Black Vulture, Sulawesi Ungulates, Okapi and Amphibians.
Feb 2007 – Oct 2007 & Aug 2004 – Oct 2004	P/T Postdoctoral Research Assistant – to Prof. A. Gabric Griffith University – Australian School of Env. Studies, QLD, Australia. Project: Environmental Modelling – Antarctic Southern Ocean.
Nov 2004 – Feb 2007	Maternity Leave
Jan 2004 – Nov 2004	Lecturer/Tutor/ Research Associate (Sessional Contracts) – Griffith University (School of Environmental Planning and Aust. School of Env. Studies).
Nov 2003 – Jun 2004	Senior Research Assistant – to Prof. Stuart Bunn, Centre for Riverine Landscapes (now the Australian Rivers Institute, Griffith University). Project: Lake Eyre Basin Rivers Assessment Methodology.
Jul 2001 – Dec 2003	Ecology Lecturer – Southbank Institute of TAFE (DETIR) (now the Southbank Institute of Technology).
Jan 1995 – Feb 2003	Research Assistant – to Prof. Jane Hughes, Molecular Ecology, Griffith University. Project: Population Genetics - freshwater and terrestrial invertebrates; agricultural crop lines.
Oct 1997 – Jan 1998	Project Officer – Queensland Government – Department of Environment. Project: The Response to Disturbance, Threatening Processes and Recovery Planning for Forest Taxa in South-East Queensland

Service to the Broader Research Community

- 2019 – 2020** – Referral comments - As a lead P.I. in a University affiliated research group I contribute to public comments on developments referred under the EPBC Act at State and Federal level that will impact Black Cockatoo habitat. To date we have contributed 105 submissions resulting in direct consultation with regulators requiring movement ecology information to inform controlled action requirements.
- 2020** – Contributed to and submitted comment as member of the Conservation Medicine Program, Murdoch University, to two public consultation rounds on the 10-year Environment Protection and Biodiversity Conservation Act 1999 Review; an independent review commissioned by the Australian Government.
- 2020 – 2021** - Invited participant of National Environmental Science Program, Threatened Species Recovery hub funded 'Expert elicitation to inform biodiversity offset priorities for Western Australia's three species of black cockatoo' – Protocol No 2017000674. Principle Investigators: Prof. Martine Maron, Dr Megan Evans UQ.
- 2016 – 2019** – Carnaby's Cockatoo Recovery Team and Forest Black Cockatoo Recovery Team – Observer.
- 2018** – At-sea bird survey in Bass Strait on board RV Investigator (Voyage: IN2018_CO1). 10 consecutive days of seabird transect surveys as part of a project addressing spatial and temporal variability in the distribution and abundance of seabirds. Collaborative project between Birdlife Tasmania, UTAS and CSIRO.
- 2016 onward** - Developer and leader of the Movement Ecology Research Group (MERGe)– Murdoch University.
- 2015 onward** - Black Cockatoo Technical Advisory Group (TAG) – Birdlife Australia (WA)
- 2014 onward** - Member of the Murdoch University Terrestrial Ecology Research Group (TERG).
- 2014** - Birdlife Western Australia Research Committee.
- 2014** - Scientific Committee of the First International White Stork Conference, 4-6 September 2014 Zielona Góra Poland.
- 2012 – 2017** – Conservation Council of Western Australia (CCWA) – participation and leadership in Citizen Science Projects – Seabird monitoring and restoration in Western Australia's offshore Islands.
- 2012 – 2017** - Murdoch University Representative at Open Day – Undergraduate and graduate course selection advise. Representative for School of Veterinary and Life Sciences.

Grant Success

Total Grant income - \$6.04 Million (Funders and Project Partners listed)

a. Submissions in negotiation

1. **2023 – 2027 Ameliorating mining impacts on health and ecology of forest black cockatoos in the northern jarrah forests using novel technologies (telemetry, flock and breeding site age structures investigated using telomere DNA approaches)** – South 32 – (Co-JI with Dr K. Warren, Dr A. LeSouef, Dr. M Andrew – MU; Dr D. Mitchell, Dr G. Barrett, R. Dawson – DBCA (WA);, Dr P. Mawson – Perth Zoo; Prof. W. Bouten – University of Amsterdam. \$3.1 Million over 5 years.

b. Awarded since 2012 - \$5.53 Million

1. **2019 – 2024 – \$3.24 M Conservation management for the long-term survivorship of black cockatoos endemic to the south-west of Western Australia: the application of telemetry to determine spatial ecology on the Perth-Peel Coastal Plain, south-west forest region and key breeding sites in response to a changing environment** - Main Roads Western Australia, Perth Transport Authority (PTA-WA; Metronet), Iluka Resources (Co-JI with Prof. K. Warren – MU; Dr D. Mitchell – DBCA (WA); Dr P. Mawson – Perth Zoo; Dr D. Saunders – CSIRO; Prof. W. Bouten – University of Amsterdam-). \$3.24 Million over 5 years.
2. **2018 – 2019 - \$84,720 - Conservation management of forest red-tailed black cockatoos associated with the Maddington-Kenwick Strategic Employment Area Precinct 3 (MKSEAP3) industrial development** - MKSEA Pty Ltd. - (Co-JI with Dr K. Warren – Murdoch Uni).
3. **2018 – \$56,500 - The Potential Role of the Forest Product Commission’s Midwest Pine Plantations as a Food Resource for Carnaby’s Cockatoo: A Concept Study using Current Telemetry Data –** Forest Products Commission WA. - (Co-JI with Dr K. Warren – Murdoch Uni).
4. **2016 – 2019 - \$90,000 - Black Cockatoo Tracking and Ecology Project – Tags** – Dept. of Biodiversity Conservation and Attractions (DBCA), Perth. - (Co-JI with Dr K. Warren – Murdoch Uni).
5. **2015 – 2017 – \$51,000 – Baudin’s Cockatoo Telemetry Project – Tags, Equip, Logistics** - World Wildlife Fund (WWF) - (Co-JI with Dr K. Warren – Murdoch Uni).
6. **2016-2018 – \$60,000 - Black Cockatoo Tracking and Ecology Project – Energetics and Ecophysiology**- PTI Architects (Co-JI with Dr K. Warren – Murdoch Uni).
7. **2015-2016 – \$6,500 - Movement Ecology of black cockatoos in Western Australia** – Holsworth Wildlife Research Endowment - (Co-JI with Dr K. Warren and Dr L. Yeap – Murdoch Uni).
8. **2015-2016 - \$2,500 - Movement Ecology of black cockatoos in Western Australia** – Birdlife Australia, Stuart Leslie Bird Award - (Co-JI with Dr K. Warren and Dr L. Yeap – Murdoch Uni).
9. **2015-2016 – \$10,000 - Black Cockatoo GPS and GSM Transmitter Trial** – World Wildlife Fund (WWF) - (Co-JI with Dr K. Warren and Dr L. Yeap – Murdoch Uni).
10. **2014-2018 - \$272,000 - Black Cockatoo Ecological Management Project** – WA Department of Housing/360 Environmental - (Co-JI with Dr K. Warren, Dr C. Holyoake, Dr A. LeSouef, Dr L. Yeap – Murdoch Uni).
11. **2018 – \$30,000 - Black Cockatoo Ecological Management Project** – Murdoch Partnership Scholarship to provide 4th year of PhD Scholarship as part of WA Department of Housing project above – Murdoch University.
12. **2015-2019 - \$250,000 - Black Cockatoo Health and Ecology Project** – Newmont Boddington Gold, South 32/Worsely Alumina – (Co-JI with Dr K. Warren, AP M. Calver, Dr H. Finn – Murdoch Uni; Dr P. Mawson, Dr S. Vitali – Perth Zoo, R. Dawson, C. Groom – DBCA, Dr D. Saunders – CSIRO).
13. **2013-2017 - \$193,332 - Seabirds as biomonitors and indicators of Marine Protected Area design in Western Australia** (Co-JI with Dr JN. Dunlop WACC, Northern Agricultural Catchment Council NACC).
14. **2014-2015 - \$ 17,283 - The ecology and geography of nest site selection by a charismatic eagle species on Australia’s offshore Islands using modelling, remote sensed data and ground truthing** – (CO JI with Dr M. Andrew – Murdoch University. National Geographic Society \$US15,955.
15. **2014 - \$10,000 - A Pilot Research Project to validate the UvA-BiTS system for use in tracking the movements of endangered Carnaby’s Cockatoos in Western Australia** - (Co-JI with Dr K. Warren – Murdoch University; Prof. Willem Bouten – University of Amsterdam. Murdoch University Veterinary & Life Sciences Deans Discretionary Fund).

16. **2014-2017 - \$15,000 - Robert Hammond Research Fund - Research into mutually advantageous or mutually exploitative relationships between humans and other species of animals** – (Funds in support of PhD Candidate, Aurelie Labbe – Murdoch University).
17. **2014 - \$5,000 - Startup funds on appointment as Ecology Lecturer**, Murdoch University, Veterinary & Life Sciences Deans Discretionary Fund).
18. **2013 - \$14,000 - Karara Endangered Species Research Centre (KESRC); Malleefowl - Management Plan – Karara Iron Ore Mine.** (Co-JI with Dr K. Warren, Dr R. Vaughan, Dr P. Adams, Dr R. Donaldson, Dr C. Palmer Holyoake, Dr L. Yeap Murdoch Uni.).
19. **2012-2015 - \$200,000 - Black Cockatoo Health and Ecology Project, and Proof of Concept Trial for Satellite Tracking of Forest Black Cockatoos** – (Co-JI with Dr K. Warren, Assoc. Prof. M. Calver, Dr H. Finn, Dr C. Palmer Holyoake, Dr L. Yeap – Murdoch Uni; Dr P. Mawson, Dr S. Vitali – Perth Zoo, R. Dawson, K Morris – DBCA. Newmont Boddington Gold – \$150,000 and Murdoch Research and Development \$50,000).

c. Grant Applications prior to 2012 - \$527,278

20. **Systematic Environmental Assessment, Eagles Assess Global & Local Ecosystems (SEA EAGLE)** (2011) Start-up grant for consortia meeting - US Fish and Wildlife Service US\$ 2000 (~AUD\$2200)
21. **RZSA Postdoctoral Fellowship (2007-2012)** - €210,000 plus oncosts (all project and travel costs covered by internal grants ~ €100,000), ~\$AUD458,000
22. **CAPRS PhD Thesis completion scholarship** (2003) - \$7944
23. **GUPRS PhD scholarship** (1998-2001) - \$47,664
24. **The Joyce Vickery Research Award** (2000) – Principle Investigator - \$1500
25. **The Stuart Leslie Bird Award** (2000) – Principle Investigator - \$5000
26. **The Norman Wettenhall Foundation** (1999) – Principle Investigator - \$5000
27. **The Australian Bird Environment Foundation** (1998) – Principle Investigator - \$1570
28. **Australian Geographic**–Principle Investigator (1998) - \$3000
29. **Ethel Mary Read Research Grant** (1998) –Principle Investigator - \$600

HDR Supervision

a. PhD

2020 – current	Zoe Kissane (Murdoch University). Integrating ecotoxicology and movement ecology in breeding populations of Carnaby’s cockatoo ecology in agricultural landscapes (Principal Supervisor; co-supervisor: Prof. Kristin Warren).
2020 – current	Molly Spaulding (Murdoch University). Movement ecology, energetics and age structures of three species of black cockatoo in southwest Western Australia using GPS telemetry, accelerometry and telomere aging (Principal Supervisor; co-supervisor: Prof. Kristin Warren).
2017 – current	Janine Kuehs (Murdoch University). Movement ecology and behaviour of the southern brown bandicoot in urban areas (Co-supervisors: Prof. Trish Fleming, Dr Amanda Kristancic)
2017 – current	John-Michael Stuart (Murdoch University). Movement ecology, diet and population dynamics of a red fox (<i>Vulpes vulpes</i>) population adjacent to a major flatback turtle rookery in the Pilbara, Western Australia (Co-supervisors: Prof. Trish Fleming).
2016 – current	Karen Riley (Murdoch University). Conservation, Management and Ecophysiology in southwest Western Australia’s black cockatoo’s (Co-supervisors: Prof. Kristin Warren, Dr Bethany Jackson).
2016 – current	Simon Cherriman (Murdoch University). Landscape utilisation in mesic and arid habitats by wedgetailed eagles revealed through GPS tracking: implications for conservation management and Science Communication (Co-supervisors: Prof. Trish Fleming, Prof. Penny Olsen – ANU).
2013 – current	Dr Lian Yeap (Murdoch University). Landscape scale impacts on health and persistence of three endangered Black Cockatoo species in southwest Western Australia, a global biodiversity hotspot. (Co-supervisors: Prof. Kristin Warren, Dr Carly Holyoake – Murdoch University).

b. PhD – overseas

2009 - 2011 **Katya Wolfram** (University of Antwerp, Belgium). The genetics of mate choice & patterns of adaptive variation in the European Black Vulture relevant to conservation management at the whole species scale (*Aegypius monachus*) (Co-supervisors: Dr P Galbusera - RZSA, Belgium; Prof. Erik Matthysen - University of Antwerp). Suspended.

c. M. Phil

2019 – current **Andrew Morton** (Australian Wildlife Conservancy | Murdoch University). Feral pig control and research in the Kimberley. (Co-supervisors: Prof. Trish Fleming, Dr Halina Kobryn – Murdoch University).

d. Finalised**PhD**

1. **2015 – 2019** Sam Rycken – **PhD** - Murdoch University. Human wildlife conflict in urban and rural ecology: defining a mutually beneficial approach to conservation management in black cockatoos (Principal Supervisor; co-supervisor Prof. K. Warren).
2. **2013 – 2018** Aurelie Labbe - **PhD** - Murdoch University. Effects of age on reproduction and chick rearing in bridled terns (*Onychoprion anaethetus*) at Penguin Island, Western Australia. (Principal Supervisor, co-supervisors Dr James Dunlop – WACC, Dr Mike Van Keulen – Murdoch Uni).

Masters

3. **2011** Sam Rycken – **Research Masters** – Changes in migration phenology in the European White Stork *Ciconia ciconia* – A study using long-term satellite tracking data. (Thesis – Writtle College/University of Essex, UK; University of Applied Sciences-Has Den Bosch, The Netherlands).
4. **2009 – 2010** Matthias Papiés – **Research Masters** - Breeding success in a reintroduced population of European White Stork *Ciconia ciconia* modelled with respect to environmental factors (Thesis – Wageningen University, The Netherlands).
5. **2014** Shannon Clohessy – **Masters (Coursework)** - An analysis of dietary breadth and foraging habitat among West Australian island populations of the White - bellied Sea Eagle (Thesis -Murdoch University).

Honours

6. **2018 – 2019** Zoe Kissane **Honours 1st Class** - Murdoch University. Conservation impact of black swan foraging ecology on the Vasse Wonnerup wetlands: a system subject to water flow regulation (Co-supervisor: Dr Jane Chambers – Murdoch University).
7. **2013** Robyn Pryor – **Honours 1st Class** - Murdoch University. A Novel System for Detecting Toxin Levels in Avian Species: Gulls on Penguin Island (WA), a Test Case. (Principal supervisor, co-supervisor Associate Professor Robert Trengove - Murdoch University).
8. **2012 – 2014** Stuart Venables - **Honours** – Murdoch University. Is a secondary colonisation route into Australia driving low-level genetic structure in the iconic Australian raptor species, the White-bellied Sea Eagle *Haliaeetus leucogaster*? (Principal supervisor, co-supervisor Dr Jennie Chaplin – Murdoch University).

Undergraduate Independent Study Contract

9. **2015** Zoe Kissane – **Undergraduate Independent Study Contract** – Murdoch University. Flying under the radar: the rise of organophosphates and new opportunities for biosentinal early warning studies. (Published: Kissane & Shephard (2017) *Conservation Biology*. doi:10.1111/cobi.12955).
10. **2012** Charlotte Rowley - **Independent Study Contract** - Murdoch University - Epigenetics in captive breeding programmes: implications for inbreeding depression.

Professional Bachelor (Belgium – equivalent to Honours Year in Australia)

11. **2009** Liesbeth Verboven – **Professional Bachelor** – Genotyping in the European White Stork (*Ciconia ciconia*) and the optimisation of Multilplex PCR – PART II (Professionele Bachelor in de Chemie – Karel de Grote Hogeschool, Katholieke Hogeschool Antwerpen, Belgium).
12. **2008** Yasmina Ahkandhaf – **Professional Bachelor** - Genotyping in the European White Stork (*Ciconia ciconia*) and the optimisation of Multilplex PCR – PART I (Professionele Bachelor in de Chemie – Karel de Grote Hogeschool, Katholieke Hogeschool Antwerpen, Belgium).

National and International Collaborators and Projects

1. **Prof. Kristin Warren, Dr Anna Le Souef, Ric Dawson** – Murdoch University; **Dr Dave Mitchell, Dr Geoff Barrett, Dr Brad Barton, Dr Kim Williams, Dr Juanita Renwick** – Dept. Biodiversity, Conservation and Attractions; **Dr Peter Mawson** – Perth Zoo, AUSTRALIA; **Dr Denis Saunders** – CSIRO – **GPS** and **Satellite Tracking** and **habitat modelling** in relation to **climate** and anthropogenic impacts, **ecotoxicology**, **telomere aging** and health in three black cockatoo species in the Southwest biodiversity hotspot region in WA.
2. **Prof. Patricia Fleming** - Director of the Centre for Terrestrial Ecosystem Science and Sustainability, Harry Butler Institute - Murdoch University. **Movement** ecology and **wildlife** ecology in Western Australian mammal **fauna (quokka, quenda)** and **feral species (pigs, foxes)**, **biosecurity**.
3. **Dr Mark Miller** – University of Leeds, UK - Predicting **foraging hotspots** for seabirds on the Great Barrier Reef using a **modelling framework** using tracking data, environmental and demographic covariates.
4. **Prof. Willem Bouten** – University of Amsterdam, THE NETHERLANDS – **GPS tracking** in birds; correlating behaviour and energy budgets in pelagic foraging species under **shifting climate regimes**; quantifying habitat use and energy budgets in iconic and endangered black cockatoos displaying behaviour change due to **urban** and **agricultural pressures**.
5. **Dr James (Nic) Dunlop** – Birdlife Australia/Conservation Council of Western Australia; **Dr Mick Payne** – Northern Agricultural Catchment Council (NACC) - **Seabirds as Biosentinels** - coastal and offshore island studies in seabird conservation using genetic, satellite tracking and ecotoxicology tools for evidence based marine protected area planning.
6. **Dr Christen Fleming** – Smithsonian Conservation Biology Institute, USA. Modelling **location error in GPS** derived telemetry data.
7. **Assoc. Prof. Rob Trengove, Dr Garth Maker** – Separation Science and Metabolomics Laboratory, Murdoch University, AUSTRALIA– **Environmental ecotoxicology studies** and method development in marine and terrestrial avian species using GCMS and metabolomic approaches for application in urban, agricultural and coastal, environments.
8. **Dr Wouter Van Steelant, Dr Emiel Van Loon** – University of Amsterdam, THE NETHERLANDS - Flight **energetics** and home range analysis in select animal species based on **GPS** and **accelerometer** data.
9. **Dr Denise Hardesty** - CSIRO, Tasmania, AUSTRALIA – **Isotope** based diet studies and **pthalate (plastics)** pollution in Seabird species.
10. **Dr Crissa Coeey** – West Virginia University, USA, **Dr Anna Le Souef** - Murdoch University, AUSTRALIA – **Ageing in avian species** using **pentosidine sampling** for colony structure and productivity assessment.
11. **Dr Oliver Krone** – Leibniz Institute for Zoo and Wildlife Research, Berlin, GERMANY – Sea Eagles as **biosentinels** in palm oil plantations Sabah, Borneo; Genetics, **ecotoxicology**, veterinary medicine, environmental monitors.
12. **Prof. Peter Irwin, Dr Charlotte Oskam** – Cryptology Lab, Murdoch University, AUSTRALIA – Application of Next Generation Sequencing technologies to **biosecurity**: food-web biology in targeted seabird species, transmission of parasites (particularly *Borrelia spp.*) in migratory bird species, quantitation of parasite load and health costs in migrating and non-migratory birds.
13. **Dr Margaret Andrew** – Murdoch University, AUSTRALIA – Remote sensing and **predictive modelling** of marine raptor nests in WA's offshore islands.
14. **SEA EAGLE** (Systematic Environmental Assessment, Eagles Assess Global & Local Ecosystems) – **Prof. William Bowerman** – University of Maryland, USA; **Dr Teryl Grubb** - US Forest Service, USA, **Dr Bjorn Helander** – Swedish Museum of Natural History, SWEDEN; **Dr Munir Virani** – The Peregrine Fund, AFRICA; **Dr Vladimir Masterov** – Lomonosov Moscow State University, RUSSIA; **Dr Alison Maclennan** – RSPB, UK. International Working Group working on interdisciplinary **biosentinel studies** in Sea Eagle *Haliaeetus* biology.
15. **Prof. Erik Matthysen** - University of Antwerp, BELGIUM, Katya Wolfram - Royal Zoological Society of Antwerp, BELGIUM – Population Genetics and **MHC** diversity in wild and captive bred Eurasian Black Vulture.
16. **Dr Leo Joseph** (ANWC), **Dr Jeremy Austin** (ACAD), **Dr Vicki Thomson** (ACAD), **Prof. Steve Donnellan** (U.Adelaide) – AUSTRALIA. Reconstruction of demographic history using **RAD-tag sequencing** in bird (White-bellied Sea Eagle), mammal, reptile and frog species.
17. **I-STORG** (Interdisciplinary Stork Research Group) – **Dr Judy Shamoun-Baranes** – University of Amsterdam, THE NETHERLANDS; **Dr Ola Olsson** - Lund University, SWEDEN; **Prof. Dr Poitr Tryjanowski** – Adam Mickiewicz University, POLAND; **Dr Jose Aguirre** (Complutense University of Madrid, SPAIN); **Prof.**

Dr Leszek Jersak – University of Zielona, POLAND. **Dr Peter Galbusera** – Royal Zoological Society of Antwerp, BELGIUM Interdisciplinary studies on the **drivers of distribution** and demographic change in European White Stork under pressure from urban expansion.

18. **SULAWESI UNGULATES SPECIALIST RESEARCH CONSORTIUM** – **Dr Greger Larson** - Oxford University, UK; **Dr Alastair Macdonald, Dr Darren Shaw** – University of Edinburgh, UK; **Dr Andrew Kitchener** – Nat. Museum of Scotland, UK; **Dr James Burton** – Earthwatch Institute, UK; **Dr Kristin Leus** - CBSG Europe, Copenhagen Zoo, DENMARK; **Dr Peter Galbusera** – Royal Zoological Society of Antwerp, BELGIUM - **Phylogeography, landscape genetics** and colonization history of three Sulawesi ungulates.

Professional Teaching Awards

1. **2017** – Murdoch University, “**Veterinary and Life Sciences Learning and Teaching Award – Best Unit Survey**” for Advanced Ecology ENV526, S2-2016.
2. **2012** - Nominated for the **Murdoch University Vice Chancellors teaching award** based on student survey results (top 10% of surveys across the University).
3. **1988 - Tasmanian Teaching Certificate** (Awarded by the Tasmanian Department of Education having achieved an “Excellent” rating for high school teaching in the first year following B.Ed award).

Research outputs (Total 109)

a. Peer Reviewed Papers (including ‘in review’, ‘in press’)

1. Spaulding, M.G., Warren, K.S. & **Shephard, J.M.** (in review). Movement ecology in conservation and management: accessibility and application in Australian Species Recovery Plans – A review. **Proceedings of the Royal Society - B.** (IF: 5.98)
2. Kissane, Z., Warren, K.S. & **Shephard, J.M.** (in review). Integrating movement ecology within a framework to identify and investigate chemical exposure in wildlife. **Proceedings of the Royal Society- B.** (IF: 5.98)
3. Kobryn HT, Swinhoe EJ, Bateman PW, Adams PJ, **Shephard JM**, Fleming PA. (in review) Foxes at your front door? Habitat selection and home range of urban red foxes (*Vulpes vulpes*). **Urban Forestry and Urban Greening.** (IF: 4.021)
4. Rycken, S., K. S. Warren, L. Yeap, R. Donaldson, P. R. Mawson, and **J. M. Shephard**. High variability in daily movement distances in forest red-tailed black cockatoos (*Calyptorhynchus banksii naso*) is driven by habitat patch size and quality across urban, peri-urban and forest landscapes. (in review) **Avian Conservation and Ecology.** (IF: 2.5)
5. Fleming, C.H., Drescher-Lehman, J., Noonan, M.J., Akre, T.S., Brown, D.J., Cochran, M.M., Dejid, N., DeNicola, V., DePerno, C.S., Dunlop, J.N., Gould, N., Hollins, J., Ishii, H., Kaneko, Y., Katzner, T., Kays, R., Killen, S.S., Koeck, B., Lambertucci, S.A., LaPoint, S.D., Medici, E.P., Meyburg, B.U., Miller, T.A., Moen, R.A., Mueller, T., Pfeiffer, T., Pike, K.N., Roulin, A., Safi, K., Séchaud, R., Scharf, A.K., **Shephard, J.M.**, Stabach, J.A., Stein, K., Tonra, C.M., Yamazaki, K., Fagan, W.F., and Calabrese, J.M. (in press) A comprehensive framework for location error in animal tracking data. **bioRxiv:2020.2006.2012.130195. Ecological Monographs.** (IF: 7.72)
6. Cherriman S, **Shephard JM**, Olsen PD, Fleming PA. Climate influences productivity but not breeding density of Wedge-tailed Eagles *Aquila audax* in arid and mesic Western Australia. (2021) **Austral Ecology.** doi.org/10.1111/aec.13106 (IF: 1.551)
7. Yeap L, Warren K.S., Bouten W., **Shephard J.M.** (2021) Application of triaxial accelerometer data to the interpretation of activity budgets in endangered black cockatoos. **Wildlife Research.** doi.org/10.1071/WR20073 (IF: 1.29)
8. Rycken S., **Shephard J.M.**, Yeap L., Vaughan-Higgins R., Page M., Dawson R., Smith K., Mawson P., Warren K.S. (2020) Regional variation in habitat matrix determines movement metrics in Baudin’s cockatoos in southwest Western Australia. **Wildlife Research, 48(1),18-29.** (IF: 1.29)
9. **Shephard J.M.**, Bouten, W, Dunlop JN. (2019) Foraging movements of common noddies in the East Indian Ocean are dependent on breeding stage: implications for marine reserve design. **Pacific Conservation Biology.** 25(2), 164-173. doi: 10.1071/PC18033

10. Labbé A.M.T., Le Souëf A.T., Dunlop J.N., Calver M., **Shephard J.M.**, van Keulen M. (2019) Skin pentosidine does not correlate with age in a long-lived seabird. *Emu – Austral Ornithology*. 119 (2), 186-190. doi: 10.1080/01584197.2018.155208. (IF: 1.583).
11. Rycken S., Warren K.S., Yeap L., Jackson B., Riley K., Page M., Dawson R., Smith K., Mawson P., **Shephard J.M.** (2019) Assessing integration of black cockatoos using behavioral change point analysis. *Journal of Wildlife Management*, 83(2), 334-342. (IF: 1.725)
12. Frantz L.A.F, Rudzinski A., Mansyursyah Surya Nugraha A., Evin A., Burton J., Hulme-Beaman A., Linderholm A., Barnett R., Vega R., Irving-Pease E.K., Haile J., Allen R., Leus K., **Shephard J.M.**, Hillyer M.J., Gillemot S., van den Hurk J., Ogle S., Atofanei C., Thomas M.G., Johansson F., Haris Mustari H., Williams J., Mohamad K., Damayanti C.S., Wiryadi I.D., Obbles D, Mona S., Day H., Yasin M., Meker S., McGuire J.A., Evans B.J., von Rintelen T, Ho S.Y.W., Searle J.B., Kitchener A.C., Macdonald A.A., Shaw D.J., Hall R., Galbusera P., Larson G. (2018) Synchronous diversification of Sulawesi's iconic artiodactyls driven by recent geological events. *Proceedings of the National Academy of Sciences B*, 285(1876), 20172566. (IF: 10.4).
13. Kissane Z and **Shephard J.M** (2017). "The rise of glyphosate and new opportunities for biosentinel early warning studies" *Conservation Biology*, 31(6), 1293-1300. doi:10.1111/cobi.12955 (IF: 5.89)
14. Kozakiewicz C.P., Carver S., Austin J.J., **Shephard J.M.** & Burrige C.P. (2017) Intrinsic factors drive spatial genetic variation in a highly vagile species, the wedge-tailed eagle (*Aquila audax*), in Tasmania. *Journal of Avian Biology*, 48(7), 1025-1034. (IF: 2.192)
15. Yeap L, **Shephard J.M.**, Bouten W, Jackson B, Vaughan-Higgins R, Warren K (2017) Development of a tag-attachment method to enable capture of fine and landscape-scale movement in black-cockatoos. *Australian Field Ornithology*, 34, 49-55.
16. Andrew, M.E. and **J.M. Shephard** (2017). Semi-automated detection of eagle nests: An application of very high-resolution image data and advanced image analyses to wildlife surveys. *Remote Sensing in Ecology and Conservation*, 3(2), 66-80. (IF: 5.0)
17. Labbé A., Dunlop J., Calver M., **Shephard J.** & Van Keulen M. (2017) Restoration of native vegetation and re-introduction of *Malva preissiana* on Penguin Island—preliminary findings. *Journal of the Royal Society of Western Australia*. 100, 1-3. (IF: 1.11)
18. Bracko A., Galbusera P., Höfle U., King C., **Shephard J.M.** & Noguera C. (2016) A European Treasure: the fortunes of the white stork have improved significantly in recent years thanks to a wide variety of conservation activities. *Zooquaria* 95, 16-7.
19. Yeap L, **Shephard J.M.**, Le Souef A, Holyoake C, Dawson R, Groom C, Kirkby T, Mawson P, Warren K. (2015) Satellite tracking of rehabilitated wild Baudin's cockatoos, *Calyptorhynchus baudinii*: a feasibility trial to track forest black cockatoos. *Pacific Conservation Biology*, 21: 163-167. (IF: 1.02)
20. **Shephard J.M.**, Rycken S, Almalik O, Struyf K, Van Erp-van der Kooij L (2015) Migration strategies revealed by satellite tracking among descendants of a population of European white stork (*Ciconia ciconia*) reintroduced to Belgium. *Journal of Ornithology*. 156(4): 943-953. (IF: 1.927)
21. Stanton D, Helsen P, **Shephard J.M.**, Leus K, Hart J, Kümpel N, Ewen J, Wang J, Galbusera P, Bruford M. (2015) Genetic structure of captive and free ranging okapi (*Okapia johnstoni*) with implications for management. *Conservation Genetics*. 15(5): 1115-1126. (IF: 2.183).
22. Stanton D, Hart J, Galbusera P, Helsen P, **Shephard J.M.**, Kümpel N, Ewen J, Bruford M. (2014) Distinct and diverse: range-wide phylogeography reveals ancient lineages and high genetic variation in the endangered Okapi (*Okapia johnstoni*). *PLoSOne* 9(7): e101081. (IF: 4.24)
23. Gabric A, Qu B, Rotstajn LD, **Shephard J.M** (2013) Global simulations of the impact on contemporary climate of a perturbation to the sea-to-air flux of dimethylsulfide. *Australian Meteorological and Oceanographic Journal* 63(3): 365 – 376. (IF: 1.247)
24. **Shephard J.M.**, Ogden R, Tryjanowski P, Olsson O, Galbusera P. (2013) Is population structure in the European white stork determined by flyway permeability rather than translocation history? *Ecology and Evolution* 3(15): 4881 – 4895. (IF: 2.343)
25. **Shephard, J.M.**, P. Galbusera, et al. (2009) Isolation and characterization of a new suite of microsatellite markers in the European White Stork, *Ciconia ciconia*. *Conservation Genetics* 10(5): 1525-1528. (IF: 2.185)
26. **Shephard, J.M.**, Hughes, J.M., Catterall, C.P. & Olsen, P.D. (2005) Conservation status of the White-bellied Sea-Eagle *Haliaeetus leucogaster* in Australia using mtDNA control region sequence data. *Conservation Genetics* 6, 413-429. (IF: 2.185)
27. **Shephard, J.M.**, Catterall, C.P. & Hughes, J.M. (2005b) Long-term variation in the distribution of the White-bellied Sea-Eagle across Australia. *Austral Ecology* 30, 131-145. (IF: 1.85)

28. Gabric, A.J., **Shephard, J.M.**, Knight, J. and Jones, G (2005) Correlations between the satellite-derived seasonal cycles of phytoplankton biomass and aerosol optical depth in the Southern Ocean: Evidence for the influence of sea ice. *Global Biogeochemical Cycles* 19(4): 1-10, (IF: 5.373)
29. **Shephard, J.M.**, Catterall, C.P. & Hughes, J.M. (2004) Discrimination of sex in the White-bellied Sea-Eagle *Haliaeetus leucogaster* using genetic and morphometric techniques. *Emu: Austral Ornithology* 104 (1), 83-87. (IF: 1.895)
30. **Shephard, J.M.**, Hughes, J.M. and Zalucki, M.P. (2002) Genetic Variation between Australian and North American Populations of the Monarch Butterfly *Danaus plexippus* L. (Lepidoptera: Nymphalidae): An exploration using Allozyme Electrophoresis. *Biological Journal of the Linnean Society* 75, 437-452. (IF: 2.413)
31. **Shephard, J.M.** (2002) Raptors of the World. (Book Review) *Emu: Austral Ornithology* 102, 211. (IF: 1.895)
32. Wiersma, J., Nermut, W. and **Shephard, J.M.** (2001) A Variation on the “Noosed Fish” method and its application to catching the White Bellied Sea Eagle *Haliaeetus leucogaster*. *Corella* 25(4), 97-99. (IF: 0.14)

b. Journal Articles in Advanced Preparation (planned publication in 2022/2023) in priority order

33. Riley, K.J. Warren K.S., Bouten W., **Shephard J.M.** Utilisation of an exotic food source by an endangered species; foraging on canola (*Brassica napus*) reduces the cost of provisioning in Carnaby’s cockatoo (*Calyptorhynchus latirostris*). *Journal of Avian Biology*. (IF: 2.192)
34. Rycken, S., Warren, K., Yeap, L., Donaldson, R., Mawson, P.R., Dawson, R. & **Shephard, J.M.** Should conservation management adapt in response to movement data analysis? A case study of the endangered Carnaby’s cockatoo of Western Australia. *Journal of Animal Conservation*.
35. Kissane, Z., **Shephard, J.M.**, Chambers, J. Seasonal forage switching by black swans in a key Ramsar wetland: the importance of Samphire (salt marsh) during the breeding season. *Pacific Conservation Biology*.
36. **Shephard J.M.** and Warren KS. The importance of habitat corridors and edges in facilitating maintenance of Carnaby’s cockatoos on the Swan Coastal Plain. *Emu – Austral Ornithology*. (IF: 1.583)
37. **Shephard, J.M.**, Papies, M., Aguirre, J., van Hooft, P., Heitkoning, I. Demographic success in a reintroduced population of European White Stork *Ciconia ciconia* modelled with respect to environmental factors. *Journal of Avian Biology*. (IF: 2.28)
38. Krone, O., **Shephard, J.M.** A snapshot review of Raptor distribution along the Kinabatangan River with reference to Palm Oil plantations, Sabah, Borneo. *Emu: Austral Ornithology*. (IF: 1.21)
39. **Shephard J.M.**, Pryor R, Maker G, Trengove R. A novel approach for investigating persistent organic pollutant (POPs) levels in avian species: A Penguin Island seagull case study.
40. **Shephard J.M.**, Venables S, Chaplin J, Joseph L, Austin J., Colonisation history revisited: did the Timor Sea play a part in driving genetic distribution in the White-Bellied Sea-Eagle in Australia? *Emu: Austral Ornithology* (IF: 1.21)
41. **Shephard, J.M.**, Hughes, J.M. & Catterall, C.P, Evidence of a morphometric cline in the White-bellied Sea-Eagle in the absence of mitochondrial DNA structure. *Condor* (IF: 1.118)

c. Edited Book

42. Jersak L, **Shephard J.M.**, Shamoun-Baranes J, Tryjanowski P (Eds) (2016) The White Stork - studies in biology, ecology and conservation. Oficyna Wydawnicza Uniwersytetu Zielonogórskiego.

d. Book Chapter

43. Le Souef A, Vitalis S, Dawson R, **Shephard J.M.**, Warren K. (2019) Fly Away Home: a collaborative program to return rehabilitated Black Cockatoos to the wild in Western Australia. in ‘Endangered Species Management: Case studies from around the world.’ Scientific Foundations of Zoos and Aquariums.
44. Johnstone, R., T. Kirkby, K. Warren, S. Rycken, **J. Shephard**, G. Barrett, M. D. Craig, P. R. Mawson, A. Burbidge, M. Bamford, and S. Garnett. 2021. Forest Red-tailed Black-Cockatoo *Calyptorhynchus banksii naso*. Pages 387-391 in S. Garnett and G. Baker, editors. Action Plan for Australian Birds 2020. CSIRO, Melbourne (in production).

45. Johnstone, R., T. Kirkby, K. Warren, **J. Shephard**, S. Rycken, M. Williams, A. Peck, G. Barrett, V. Stokes, M. D. Craig, P. R. Mawson, A. Burbidge, M. Bamford, and S. Garnett. 2021. Baudin's Black-Cockatoo *Zanda baudinii*. Pages 398-402 in S. Garnett and G. Baker, editors. Action Plan for Australian Birds 2020. CSIRO, Melbourne (in production).
46. Saunders, D. A., P. R. Mawson, R. Dawson, R. Johnstone, T. Kirkby, K. Warren, **J. Shephard**, S. Rycken, W. Stock, M. Williams, A. Peck, G. Barrett, V. Stokes, M. D. Craig, A. Burbidge, M. Bamford, and S. Garnett. 2021. Carnaby's Black-Cockatoo *Zanda latirostris*. Pages 402-407 in S. Garnett and G. Baker, editors. Action Plan for Australian Birds 2020. CSIRO, Melbourne (in production).

e. Conference Oral Presentations/Posters and Invited Talks

Oral

47. Cherriman SC, Fleming PA, **Shephard JM**, Olsen PD. (2019) Where Do Eagles Dare? Post-fledging and dispersal behaviour in the Wedge-tailed Eagle. Australian Ornithological Conference, 3-5 July 2019, Darwin, NT, Australia.
48. Galbusera P., van den Hurk J., Helsen P., **Shephard J.M.**, Enggist P., Schulz H. (2017) Migration in the European White Stork: a genetic basis? Zoology 2017: 'Genotype-phenotype map: from model systems to ecosystems', 23-24th November 2017, Wageningen University, The Netherlands.
49. Andrew, M.E. and **J.M. Shephard**. (2017) Spatial tools for coastal biodiversity management: Image-based detection of sea eagle nests and identification of nest site preferences. 54th Annual Conference of the Australian Marine Sciences Association. 2-6 July 2017. Darwin, NT, Australia.
50. **Shephard JM**, Dunlop JN, Fearn P, Pierce A, Bouten W. (2016) Linking Foraging strategy to ocean productivity in tern species: proof of concept and first data. UvA-BiTS Bird Tracking Symposium, University of Amsterdam, NL. 20-22nd April 2016
51. **Shephard JM**, Dunlop JN, Fearn P, Pierce A, Bouten W. (2015) Linking Foraging strategy to ocean productivity in tern species: proof of concept and first data. Australian Ornithological Conference, Flinders University, Adelaide, South Australia, 25-29th November 2015.
52. Rycken S, **Shephard JM**, Warren K, Yeap L. (2015) Human-wildlife conflict in urban ecology: defining a mutually beneficial approach to conservation management of the endangered Black Cockatoo. Australian Ornithological Conference, Flinders University, Adelaide, South Australia, 25-29th November 2015.
53. **Shephard JM**, Dunlop JN, Fearn P, Pierce A, Bouten W. (2015) Identification of important oceanographic productivity zones in the Eastern Indian Ocean using satellite tracking in seabirds and remotely sensed data. Annual Meeting of the NACC Seabird Steering Group, Western Australian Conservation Council, 23 Feb 2015
54. **Shephard JM**, Dunlop JN, Fearn P, Pierce A, Bouten W. (2014) GPS tracking in tern species: proof of concept and first data. 1st International Tern Symposium – Houtmann Abrolhos Islands, Western Australia, 12-16 November 2014
55. **Shephard JM** and Andrew M (2013) A novel approach to nest site modelling: White-bellied Sea Eagle *Haliaeetus leucogaster* nest distribution captured through remote sense imagery. Australasian Raptor Conference – Raptors in a Changing Landscape. Adelaide Zoo, South Australia 10-11 August 2013
56. Larsen G, Galbusera P, Burton J, Barnett R, Allen R, Linderholm A, Frantz L, Hillyer M, **Shephard J**, Leus K, Shaw D, Gillemot S, Obbels D, Ogle S, Damayanti S, Hulme-Beaman A, Djuwati I, McDonald A (2013) A Genetic Evaluation of Three Indigenous Mammals of Sulawesi. SAGE 2013 – 2nd Southeast Asian Gateway Evolution Meeting March 11-15, 2013, Berlin, Germany.
57. McDonald A, Hulme-Beaman A, Kurniawan I, Evin A, Johansen F, Kitchener A, Nugraha T, Agungpriyono S, Saili T, Galbusera P, Leus K, Burton J, **Shephard J**, Larson G, Shaw D (2013) The Morphometric Variation of Three Sulawesi Ungulates. SAGE 2013 – 2nd Southeast Asian Gateway Evolution Meeting March 11-15, 2013, Berlin, Germany.
58. Galbusera P, Leus K, Burton J, McDonald A, Ogle S, Djuwita I, Kusdiantoro M, Damayanti S, Kitchener A, **Shephard J**, Hillyer M, Shaw D, Larson G. (2013) The Conservation Genetics of three Sulawesi Ungulates. SAGE 2013 – 2nd Southeast Asian Gateway Evolution Meeting March 11-15, 2013, Berlin, Germany.
59. **Shephard J.M.** (2012) Population and Landscape Genetics|Spatial Modelling|Ecotoxicology – Lightening Talks, Murdoch University, Perth Australia. 16th December 2012.

60. Wolfram K, Galbusera P, **Shephard J**, Pereboom Z, Matthysen E (2012) Modern-day matchmaking in a species of conservation concern, the Eurasian Black Vulture, *Aegypius monachus*. *EAZA Annual Meeting*, 25-29 September 2012, Innsbruck, Austria.
61. **Shephard J.M.**, Ogden R, Tryjanowski P, Olsson O, Galbusera P (2012) Unravelling the effects of translocation history versus population decline on a widespread migrant: The case of the European White Stork. *European Congress of Conservation Biology (ECB)* 28 August - 1 September, Glasgow, UK
62. Wolfram K, Galbusera P, **Shephard J**, Pereboom Z, Matthysen E (2012) Modern-day matchmaking in a species of conservation concern, the Eurasian Black Vulture, *Aegypius monachus*. *European Congress of Conservation Biology (ECB)* 28 August - 1 September, Glasgow, UK.
63. **Shephard, J.M.** (2012) Combining GPS and accelerometer data to study bird movement and behavior. Annual Meeting of the Black Cockatoo Research Group. Murdoch University, Perth Australia, 20th August 2012.
64. **Shephard, J.M.**, Ogdon, R., Tryjanowski, P., Olsson, O., Galbusera, P., (2011) Unravelling the effects of translocation history versus population decline on a widespread migrant: The case of the European White Stork. 5th CRC Symposium, Royal Zoological Society of Antwerp, Belgium, 10th November 2011.
65. Rycken, S., **Shephard, J.M.**, Van Erp, L., (2011) Tracking the western white stork: patterns and process. 5th CRC Symposium, Royal Zoological Society of Antwerp, Belgium, 10th November 2011
66. **Shephard, J.M.**, Ogdon, R., Tryjanowski, P., Olsson, O., Galbusera, P., (2011) Unravelling the effects of translocation history versus population decline on a widespread migrant: The case of the European White Stork. **Invited Speaker** - at the European Ornithological Union meeting, August 2011, Latvia
67. **Shephard, J.M.**, Ogdon, R., Tryjanowski, P., Olsson, O., Galbusera, P., (2011) An evaluation of the reintroduction of European White Stork to Western Europe. 8th International Conference on Behaviour, Physiology and Genetics of Wildlife – IZW, Berlin, September 2011.
68. Wolfram, K. Galbusera, P. **Shephard, J.M.** Pereboom, Z.J. (2011) Modern-day matchmaking in a monogamous raptor species of conservation concern, the Eurasian Black Vulture, *Aegypius monachus*. 8th International Conference on Behaviour, Physiology and Genetics of Wildlife – IZW, Berlin, September 2011.
69. Bowerman, W., **Shephard, J.M.**, MacClennan, A., Bridges, W., Hellander, B., Best, D., Virani, M., Nye, P., Thorstrom, R., Grubb, T., Masterov, V., (2011) Utilizing Over 50 Years of Sea Eagle Research for Global Climate Change Monitoring and Assessment. To be presented at Workshop: Adaptation to Climate from a Spatial Perspective', Lammi Biological Station, University of Helsinki, Finland 11-14 September 2011.
70. **Shephard, J.M.** (2011) Genetics of Reintroduced Populations: Panmixia in the European White Stork – A case of opportunistic reintroduction or dispersal opportunism. Invited Case study in Masters in Conservation Biology (Subject Code: MBIO1043 – University of Antwerp 25 March 2011
71. **Shephard, J.M.** (2011) SEA EAGLE – Specialist Working Group Meeting. Clemson University, Clemson, South Carolina, Feb 27-March 5 201.
72. **Shephard, J.M.** (2010) Landscape Genetics – An introduction.... – **Invited Speaker** – CRC training seminar, Zoo Antwerpen, 25th June 2010.
73. **Shephard, J.M.** (2010) Active Conservation: The state of research into the White-bellied Sea Eagle in Australia – **Invited Speaker** for the Leibniz Institute for Zoo and Wildlife Research (IZW), Germany, 12 August 2010.
74. **Shephard J.M.** Pereboom Z.J., (2009) Ooievaars Zonder Grenzen: de populatie na de herintroductie projecten bekeken op een Europese schaal - Update. CRC-Symposium, Zoo Antwerpen, 20 November 2009.
75. **Shephard, J.M.**, Hughes, J.M., Catterall, C.P. & Olsen, P.D. (2009) Contemporary Status of the White-Bellied Sea Eagle in Australia: A Tale of Many Scales. Raptor Research Foundation Annual Conference 2009 – Pitlochry, Scotland UK.
76. Pereboom Z.J., **Shephard J.M.** (2009) Ooievaars Zonder Grenzen: de populatie na de herintroductie projecten bekeken op een Europese schaal. Landelijke Ooievaarsdag April 16 2009, Eernewoude, The Netherlands.
77. **Shephard J.M.** (2008) Panmixia in the European White Stork: a case of opportunistic reintroduction or dispersal opportunism. CRC-Symposium, Zoo Antwerpen, 5 December 2008.

78. **Shephard J.M.** (2008) Is it real? The east-west divide explained. Landscape Genetics Workshop October 20-23 2008, Grenoble, France.
79. **Shephard J.M.** (2001) Molecular Ecology meets GIS – How useful are these tools in answering applied conservation Questions? A case study: The White-bellied Sea Eagle. Invited Speaker - Faculty Seminar Series - Queensland University of Technology. Brisbane, QLD, Australia.
80. **Shephard J.M.** (2000) Conservation Priorities for the White-bellied Sea-Eagle (*Haliaeetus leucogaster*) as determined by Genetics and Habitat Modelling. The Griffith University Postgraduate Symposium. Gold Coast Campus – QLD, Australia.

Poster

81. Andrew, M.E. and **Shephard J.M.** (2014). Seascape ecology of nest site selection by white-bellied sea eagles. *Annual Symposium of the United States Regional Association of the International Association for Landscape Ecology*. May 18-22, 2014. Anchorage, AK, USA.
82. Warren K, Le Souef A, **Shephard J**, Yeap L, Holyoake C, Claver M, Finn H, Dawson R, Groom C, Mawson P, Vitali S, Kirkby T. (2012) Carnaby's Black-Cockatoo 2013 Symposium, WA Conservation Science Centre, Dept of Environment and Conservation, Perth, Western Australia. 19th Feb 2012
83. Wolfram, K. Galbusera, P. **Shephard, J.M.** Pereboom, Z.J. (2011) Modern-day matchmaking in a monogamous raptor species of conservation concern, the Eurasian Black Vulture, *Aegypius monachus*. 12th Meeting on Chemical Signals in Vertebrates, 28th-31st August 2011, Berlin, Germany.
84. Wolfram, K. Galbusera, P. **Shephard, J.M.** Pereboom, Z.J. Matthysen, E. (2010) Mate Choice and Patterns of Adaptive Variation in Eurasian Black Vultures (*Aegypius monachus*). European Scientific Foundation (ESF) Next Generation Sequencing Meeting, Leiden, The Netherlands August | September 2010.
85. **Shephard J.M.**, Galbusera P.H.A. (2009) Artificial Dispersal? The Story of a Cyclic Migrant – The European White Stork (*Ciconia ciconia*). 4th meeting of the International Dispersal workgroup 14-15th Sept 2009, Gent, Belgium.
86. Wolfram K., **Shephard J.M.**, Galbusera P.H.A., Pereboom Z.P (2009) Matchmaking in the Eurasian Black Vulture (*Aegypius monachus*): Understanding mate choice and patterns of adaptive variation in a raptor species. An assessment using genetic analysis and behaviour observations. EAZA Conference 2009 – Copenhagen.
87. **Shephard, J.M.**, Hughes, J.M., Catterall, C.P. & Olsen, P.D. (2003) Conservation status of the White-Bellied Sea-Eagle *Haliaeetus leucogaster* in Australia determined using mtDNA control region sequence data. XIX International Congress of Genetics, Brisbane, Australia.
88. **Shephard, J.M.**, Hughes, J.M., Catterall, C.P. & Olsen, P.D. (2000) Conservation Priorities for the White Bellied Sea Eagle (*Haliaeetus leucogaster*) as Determined by Habitat Modelling and Genetic Analysis. The Southern Hemisphere Ornithology Conference 2000 – Griffith University, Brisbane, Australia.
89. **Shephard, J.M.**, Hughes, J.M., Catterall, C.P. & Olsen, P.D. (2000) Genetic Structure Within The Australian Range of The White Bellied Sea Eagle (*Haliaeetus Leucogaster*) and Implications for Future Management. The National Postgraduate Conference for Ecology Evolution and Systematics 2000, Australian National University, Canberra, Australia.
90. **Shephard, J.M.**, Hughes, J.M., Catterall, C.P. & Olsen, P.D. (1999) Genetic Structure Within The Australian Range Of The White Bellied Sea Eagle (*Haliaeetus Leucogaster*) and Implications for Future Management. Combined meeting of the Society for Molecular Biology & Evolution and The Genetics Society of Australia 1999 – Griffith University, Brisbane, Australia.

f. Major Reports

91. Maron, M., M. C. Evans, J. C. Walsh, H. Mayfield, T. Nou, C. Davies, M. Bamford, M. Bamford, G. Barrett, R. Davis, R. Dawson, C. Groom, R. Johnstone, T. Kirkby, P. R. Mawson, D. Mitchell, A. Peck, K. Riley, E. Roper, S. Rycken, D. A. Saunders, **J. M. Shephard**, C. Stevenson, and K. Warren. 2021. Better offsets for Western Australia's black-cockatoos. NESP Threatened Species Recovery Project 5.1. Research findings factsheet, Brisbane.
92. (2019) **Shephard J.M.** and Warren KS. Conservation management of forest red-tailed black cockatoos associated with the Maddington-Kenwick Strategic Employment Area Precinct 3 (MKSEAP3) industrial development. A report for MKSEA Pty. Ltd.

93. (2018) **Shephard J.M.** and Warren KS. Potential role of the Forest Product Commission's Midwest pine plantations as a food resource for Carnaby's cockatoo: a concept study using GPS and satellite tag data. A report for the Forest Products Commission.
94. (2018) **Shephard J.M.** Tracking Foraging Patterns in Sooty Terns and Common Noddies off Mid-Western Western Australia. pp 16-19 In Dunlop J.N. and **Shephard J.M.** Sentinel Seabirds: A Guide to Using Marine Birds to Monitor Ecosystems in Western Australia. Northern Agricultural Catchment Council Geraldton.
95. (2013) Warren K, **Shephard J.M.**, Adams P, Donaldson R, Holyoake C, Vaughan R, Yeap L. Karara Endangered Species Research Centre (KESRC) - Management Plan – Conservation Medicine Research Group, Murdoch University. Prepared for Karara Iron Ore Mine.
96. (2004) Sheldon F & **Shephard J.M.** Introduction – Chapter 1 in "Lake Eyre Basin Rivers Assessment Methodology" - Centre for Riverine Landscapes, Griffith University. Prepared for Land and Water Australia.
97. (2004) McKenzie-Smith F, Sheldon F, **Shephard J.M.**, Bunn S, McTainish G. Lake Eyre Basin Rivers Assessment Methodology – Conceptual Models (CD-Rom), Centre for Riverine Landscapes, Griffith University.
98. (2004) Ma'aden Aluminium Project – Environmental Impact Assessment. Gutteridge, Haskin & Davies Pty Ltd (GHD).
99. (1998) The Response to Disturbance, Threatening Processes and Recovery Planning for Forest Taxa in South-East Queensland. 1998. Queensland Department of Environment
100. (1995) South Coast Motorway (Northern Section) - Environmental Impact Assessment. 1995 Kinhill Cameron and McNamara. Prepared for Queensland Transport.

g. Popular Science Publications – Communicating Science to the Public | Media – Television | Newspaper

101. Seabird research highlighting the use of GPS satellite tracking in the use of seabirds as predictive indicators of oceanic condition with particular relevance to fisheries, marine reserves and animal ecophysiology:
 - <http://files.aussiehome.com/cmsFiles/1090/file/Media%20Releases/Community%20Monitoring%20of%20Seabirds.pdf>
 - http://www.planning.wa.gov.au/dop_pub_pdf/Coastlines_autumn_edition2014.pdf
 - <http://phys.org/news/2014-03-tern-tracking-abrolhos-lightweight-device.html>
 - <http://www.abc.net.au/news/2014-02-21/seabird-food/5276266>
 - <http://www.inmycommunity.com.au/news-and-views/local-news/Terns-attract-world-experts/7657222/>
 - http://www.communitynews.com.au/publicpdf/archive/2014/B_February/25.02.14/WT20140225_JOO_015-038.pdf
 - <http://www.arcgis.com/home/item.html?id=ed892525e35b41d3a6e83bcd0a055db>
 - <http://www.arcgis.com/home/item.html?id=bfa9cccfdde415b80030ea62b861ac4>
102. Black Cockatoo research highlighting the use of satellite and GPS satellite tracking in conservation ecology in an iconic endangered Western Australian species. Ongoing Black Cockatoo tracking work continues to receive very good media coverage and interest. The most recent coverage came from ABC News, ABC 24, Channel 10 News, WA Today and a lot of regional newspapers and national radio. According to MU Media Watch reports the television and radio exposure reached several hundred thousand people nationally which is very good exposure for the project and Murdoch University. Some examples are below:
 - <http://tenplay.com.au/news/perth/2015/8/5/groundbreaking-cockatoo-study>
 - <http://media.murdoch.edu.au/new-tracking-program-for-baudins-cockatoos>
 - <http://media.murdoch.edu.au/researchers-to-track-threatened-black-cockatoos-at-murdoch-university>
 - <http://www.communitynews.com.au/news/Bird-track-study/7673873>

- <http://sciencewa.net.au/topics/environment-a-conservation/item/3743-smart-trackers-monitor-cocky-behaviour>
103. **Shephard J.M.**, Pereboom, J (2011) Storks in the spotlight – 20 years of research comes to an end. **The Zoo Magazine** (Sept Edition) Royal Zoological Society of Antwerp, Antwerp. (In Flemish - Official Publication for the Public).
 104. **Shephard J.M.** Sea Eagles as climate monitors ZOO zit dat! 3 May 2011– Antwerp Zoo Blog, <http://www.zooresearch.be/?page=news&nid=941>
 105. Wolfram, K., **Shephard J.** (2009) Gierende Hormonen (Hormones raging) ZOO zit dat! 23 October 2009- Antwerp Zoo Blog, <http://crc-sciblog.blogspot.com/2009/10/de-juiste-partner-vinden-is-niet-enkel.html>
 106. **Shephard J.**, Pereboom J. (2008) Een fantastische start van het seizoen (A Fantastic Start to the Season). **The Zoo Magazine** 74:33, Royal Zoological Society of Antwerp, Antwerp. (In Flemish - Official Publication for the Public).
 107. Pereboom J., **Shephard J.** (2008) Ooievaars (European White Stork). ZOO zit dat! 21 December 2008 - Antwerp Zoo Blog, <http://crc-sciblog.blogspot.com/2008/12/ooievaars.html>
 108. Ooievaars in Planckendael (European White Stork in Planckendael, the banding and nesting season 2008), **RTV Nieuws – Belgium. 12/06/2008**. Interview.
 109. Buitenlandse zoölogen leren bij in onze dierentuin: de job is me op het lijf geschreven (Overseas researchers in the zoo: The job fits me like a glove), **Gazet van Antwerpen**, Dinsdag 15 December 2009. Interview.