ANDREW J. LOTHIAN

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PROFESSIONAL SUMMARY

- I am a professional zoologist who has been working as an ecological consultant for 7 years. Prior to this I was working as a field ecologist on projects for various government departments and universities. My particular areas of expertise include vertebrate fauna surveys (all mammals including bats, birds, reptiles, frogs and fish), freshwater macroinvertebrate assessment and habitat assessment.
- I have always had an enthusiastic approach to fieldwork of any type. During my years with BMS I have been honing my skills in management of people and the business as a whole.
- I am easy to get along with and enjoy working hard. Other strengths include an eye for detail, critical thinking and troubleshooting. I am honest and my skills in the field are both broad and well-practiced.
- I am always working to develop and further broaden my skill set and knowledge. Whilst already running my own business I plan to become a partner of BMS in the near future. I am also Treasurer of the Ecological Consultants Association of NSW, a seminal organisation for our industry. I also maintain links to various universities and government departments around the state in both a teaching and research capacity.

TERTIARY EDUCATION

2006 - 2007 **Ecology Honours** – "Ecology of an endangered Long-nosed bandicoot population (*Perameles nasuta*) threatened by urbanisation"
University of New South Wales (UNSW), Kensington
Achievements:
- High Distinction for Honours Thesis (1st Class)

2002 - 2006 **Bachelor of Commerce/Bachelor of Science**, Majors in Business management and Ecology, Minor in Zoology
University of New South Wales (UNSW), Kensington
Achievements:
- Achieved many distinctions
- Academic transcript available upon request

EMPLOYMENT

Jan 2009 - Current **Manager Field Operations, Biodiversity Monitoring Services**
- Zoologist for ecological consulting firm
- Conducting mammal, bird, amphibian, reptile and habitat surveys using the following methods: Elliot traps, cage traps, spotlights, call playbacks, hair tubes, Anabat detectors, harp traps, pitfall traps and reptile funnels. Includes animal handling, data collection and processing, mapping and reporting
- Co-supervised an honours student with Charles Sturt University (2014). Student achieved 1st Class Honours for the project titled "Response of ant and vertebrate

taxa to wildfire in Newnes Plateau Shrub Swamp"
- Conducting specialist surveys for Bathurst Copper Butterfly
- Work in a variety of remote environments from the Blue Mountains, through the tablelands and western slopes to the arid zone of NSW.
- **Achievements** – run the field operations side of the business: coordinating staff and inductions, first aid, vehicle and equipment maintenance, OHS development, planning and executing trips, reporting, GIS mapping, bat call analysis

Feb 2010 – Mar 2011

Project Officer, Vertebrate Pest Research Unit, NSW Department of Primary Industries
- Conducting research on the welfare of young kangaroos with regards to the NSW kangaroo harvesting industry
- **Achievements** – work independently in remote areas to collect data on the welfare of kangaroos

May – Sep 2010

Research Assistant, Dr Adam Munn (University of Wollongong - UOW)
- Conducting research into suitable euthanasia procedures for cane toads
- **Achievements** – co-ordinated research and communicated experimental results via scientific reports, Codes of Practice and Standard Operating Procedures

Feb 2008 - Current

Research Assistant, Dr Adam Munn (University of Sydney – USYD)
- Catching and handling large mammals (red kangaroos, western grey kangaroos, sheep, feral goats) at Fowler's Gap field station – dissection, taking blood samples, radio tracking and configuring GPS collars
- Assisting and advising PhD and honours students with projects on behaviour, movement, foraging, digestion and water turnover in large herbivores.
- Processing lab samples (microwave digestion, plant fragment identification)
- Set up camera equipment and data loggers to investigate torpor in dunnarts
- **Achievements** – troubleshooting skills crucial to project success, photos from work published in journals

Nov 2007 - Current

Contract Field Researcher, Parks and Wildlife Division, Office of Environment and Heritage
- Coordinate and run the Long-nosed bandicoot monitoring program at North Head (Sydney Harbour National Park)
- Tasks involve microchipping, small mammal handling, cage trapping and collecting DNA biopsies
- Using Lethabarb to euthanase pest species (black rats)
- Coordination of volunteers and safety inductions
- Writing reports on the outcome of each monitoring session
- Conducting a Population Viability Analysis as part of the monitoring feedback
- **Achievements** – self directed the organisation and execution of trapping sessions and reported results and recommendations to OEH and stakeholders

Jun 2010 - Aug 2010

Field Surveyor, Peggy Eby (via University of Melbourne)
- Conducting radio tracking surveys on Little black and Grey headed flying fox around Sydney
- **Achievements** – work independently to supply data for Royal Botanic Gardens on movement and roosting of flying fox

Sep 2009 – Mar 2010

Field Surveyor, Birds Australia (Port Botany Expansion Project)
- Conducting surveys on migratory shorebirds (including behavioural data)
- **Achievements** – work independently to supply data for PhD project

Sept 2008 - 2010

Demonstrator, Life in Arid Lands field trip to Fowler's Gap (UNSW)
- Run practical exercise on spotlighting and pitfall trapping for small mammals and reptiles at Fowler's Gap field station.

- Assisted with experimental design, execution and statistical analysis of independent student projects. Projects covered mammal, bird, reptile and plant assemblages.
- **Achievements** – commended on excellent skill, enthusiasm and knowledge by students and course co-ordinator; asked to help re-design course

Dec 2007 - 2009

Demonstrator, Australian Wildlife Biology course at Smiths Lake (UNSW)

- Teaching students from Singapore about Australia's unique biota, including trapping, spotlighting, frog and tadpole identification, call playbacks, bird identification, plant identification and Anabat use
- Assisted with the teaching of lab classes on hair, bone, freshwater invertebrate, and freshwater fish identification (using keys, field guides and CSIRO Hair ID software)
- **Achievements** – earned a more commanding role in course for Dec 2009

Oct 2008 - 2010

Field Officer, NGH Environmental Pty Ltd

- Hired as specialist fauna survey consultant by environmental consulting firm
- Conducting habitat surveys, trapping, bird surveys, spotlighting, call playbacks and setting out hair tubes
- Leading targeted monitoring program for squirrel gliders in Albury
- **Achievements** – training NGH staff for future projects

Jan 2009

Field contractor, Dr Peter Banks (UNSW)

- Constructing and setting up an animal monitoring system at Taronga Zoo – installing CCTV system in outdoor exhibit
- **Achievements** – worked independently to set up a professional looking system to monitor animal behaviour via video camera

Jul - Nov 2008

Research Assistant, Prof Desmond Cooper (UNSW)

- Assisting with the coordination, running and teaching of the UNSW component of the Masters of Conservation Biology program for international students
- Teaching macropod animal handling course, running field trips, designing and assisting with projects for students (including ethics applications and statistics)
- **Achievements** – provided key help with projects spanning wide fields of interest

Mar-Jul 2008

Research Assistant, Dr Catherine Herbert (UNSW/USYD)

- Finishing up research for post doctoral fellow – catching and handling Tammar wallabies and Eastern grey kangaroos at UNSW's Cowan field station – tasks included vaccinating, worming, microchipping, taking blood samples and ear biopsies, assisting with ultrasound and endoscope analyses
- Setting up digital recording equipment, rigging up netting and shelters to protect from eagle predation, diagnosing and treating sick animals
- Updating and managing data for many different projects, managing finances, writing reports and ethics applications, coordinating and assisting honours students with their research
- **Achievements** – quickly brought myself up to speed on multiple research projects

Sept-Dec 2007

Research Assistant, Dr Peter Banks and Royal Zoological Society of NSW (UNSW)

- Setting up a new animal research facility at UNSW – installing wiring/cameras
- Making old issues of Australian Zoologist available for download and viewing on the RZS NSW website; www.rzsnsw.org.au/publications/AZ_Backissues

Jul – Aug 2007

Field Research Assistant, Catherine Price (UNSW)

- Conducted microhabitat assessment and set up field experiments in Lane Cove National Park

Mar 2007 **Lab Demonstrator, Vertebrate Zoology (UNSW)**

- Taught students about dissections, identification of specimens and functional aspects of vertebrate characteristics

Sept 2006 **Field Research Assistant, Dr Jen Kelley (UNSW)**

- Organised and coordinated set up of infrared cameras and digital video recording equipment to track animal movement and behaviour in field enclosures (including preparation of equipment and enclosures) at Mallee Research Station in Walpeup (VIC)
- **Achievements** – worked completely independently in a remote area to design, set up and execute a post-doctoral project for a desired outcome

OTHER PROJECT EXPERIENCE

May 2009 **Field Assistant, Hayley Bates (UNSW)**

- Mountain pygmy possum surveys in the Snowy Mountains

Mar 2009 **Field Assistant, Parks and Wildlife Division (OEH)**

- Owl surveys in the Blue Mountains near Newnes

Jun 2008 **Field Assistant, Dr Scott Mooney (UNSW)**

- Taking core samples for Holocene fire history studies at Wingecarribee swamp

May 2004 – Aug 2007 **Field Assistant, Parks and Wildlife Division (OEH)**

- Long-nosed bandicoot monitoring program at North Head

Jul 2006 – Sep 2009 **Publication salesperson for the Royal Zoological Society of NSW**

- Coordinated selling of publications and signing up new members at various forums/symposia
- Organised orders for publications and their delivery to retail outlets

Aug – Dec 2006 **Field Assistant, Catherine Price (UNSW)**

- Constructed and monitored sand plots (including identification of animal prints)
- Prepared and set up digital wildlife monitoring cameras (including troubleshooting)
- Yengo National Park (NSW) and Mallee Research Station in Walpeup (VIC)

Sept – Dec 2006 **Field Assistant, Alexandra Carthey (UNSW)**

- Assisted with honours field work looking at house mouse foraging behaviour

May – Dec 2006 **Field Assistant, Parks and Wildlife Division (OEH)**

- Southern brown bandicoot monitoring program at Ku-Ring-Gai Chase NP
- Tested and used radio tracking equipment, and attached transmitters to animals

Jan – Dec 2004 **Volunteer Keeper, Animal Watch and Behavioural Department, Taronga Zoo (Sydney)**

- Created and monitored behavioural enrichment devices across a wide range of species (including ungulates, primates and big cats)

CERTIFICATIONS

2016 - current **AUSRIVAS Bioassessment Course – through University of Canberra**

2015 **Chainsaw Trim and Cut Felled Trees**

2013 **Registration with PEGASUS Workforce Management**

2010 **Registration with DAMSTRA Workforce Management**

2009 **Green Card (Occupational Health and Safety General Induction for Construction Work in NSW)**

2008 **Senior First Aid Certificate**

2001 **Full driving licence**

- Class C
- Completed Advanced Driver Training Certificate Stage 1 (Ian Luff Motivation)
- Completed AAMI Safe Driver Training Certificate
- 4wd owner and operator for 15 years with extensive remote and offroad travels

PROFESSIONAL MEMBERSHIP

2010 - current **Ecological Consultants Association of NSW**

- Executive Council Member - Treasurer since 2014 (Practicing member pre-2014)
- Attended 3 annual conferences (2011-2014) and contributed to ECA biennial publication 'Consulting Ecology'

2003 - 2010 **Royal Zoological Society of NSW**

- Scientific member
- Attended 6 annual conferences (2004-2009) and numerous monthly seminars

CONFERENCE/WORKSHOP PARTICIPATION

2007 **Biodiversity Extinction Crisis Conference 2007 – Society for Conservation Biology, Australasian Section**

- Poster – "Conservation management of the endangered Long-nosed bandicoot (*Perameles nasuta*) population at North Head Sydney: a 12 year demographic study"

2007 **Royal Zoological Society Of New South Wales 2007 Annual Forum**

- Poster – "Conservation management of the endangered Long-nosed bandicoot (*Perameles nasuta*) population at North Head Sydney: a 12 year demographic study"

2012 **Camera Trap Colloquium**

2012 **ECA Bat Workshop**

2014 **Titley Scientific Bat Call Analysis Workshop**

2015 **Hollows for Habitat Forum**

PUBLICATIONS

2014 **Consulting Ecology, Vol. 32, Feb 2014**

- Article "Post fire surveys on Newnes Plateau". Page 13-15

2009 **Australasian Science, Vol. 30 (5), Jun 2009**

- Photograph "Dr Adam Munn releases a GPS-collared kangaroo as part of an investigation revealing that they are much more efficient than sheep." Page 5

2009 **Journal of Animal Ecology, Vol. 79 (1), Jan 2010**

- Photograph "Female red kangaroo (*Macropus rufus*) with her yearling juvenile. Kangaroos are adapted to low and unpredictable rainfall giving rise to low, variable juvenile survival and high, stable adult survival. Reduced and more varied rainfall induced by climate change might increase kangaroo vulnerability to over-harvest." Page 1

2008 **Consulting Ecology, Vol. 21, Aug 2008**

- Series of 7 photographs from Smiths Lake, NSW. Page 10-11

REFEREES

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