

Dr Isabelle Wolf

Senior Researcher

0403 303 550

isabelle.wolf@environment.nsw.gov.au

www.linkedin.com/in/dr-isabelle-d-wolf

www.ecology-explorer.com

Fifteen years progressive experience in park visitation, tourism and visitor experience research

in Australia and internationally, including the review, analysis, development and implementation of research, preparation of project plans, stakeholder engagement, management of tenders, contractors and up to \$330,000 project budgets and reporting of progress and outcomes to senior management and cross-agency stakeholders.

A leading expert in Australia on using innovative technologies for visitor monitoring in protected areas,

particularly applying GPS tracking and Public Participatory Geographic Information Systems to complex stakeholder engagement surveys on mountain biking and horse riding in parks.

Advanced ability to communicate research findings to a broad audience

via publications, presentations and workshops including to the NSW National Parks and Wildlife Service (NPWS) Directors.

Adept in drafting and editing departmental documents

to ensure timely high-quality distribution and use of research, and provide departmental advice. Prepared technical research reports, briefing notes and fact sheets and contributed data for Ministerial communication, webpages and media releases.

Attracted funding in excess of \$2,400,000,

including highly competitive grants. **Received esteemed research awards**, including the 'Highly Commended' Sir Frank Moore Award, the Australian Ecological Society's PhD award and the German National Academic Foundation's Scholarship for Outstanding Researchers.

Highly advanced relationship-building and collaboration skills

with experience engaging with NPWS staff at all levels, tertiary institutions, park agencies and tourism bodies.

CAREER HIGHLIGHTS

Established an affiliation for NPWS with a **\$462,000 Australian Research Council project** involving three universities, three park agencies and the Parks Forum.

Developed a **contemporary visitor monitoring and survey approach for Parks Australia**.

Invited as **keynote speaker at major conferences** including the World Parks Congress and MMV, the leading international conference on Management and Monitoring of Visitors in Protected Areas. **20+ conference presentations**.

Recruited, trained and supervised **15+ research interns and Honours students** for NPWS.

Published in and reviewed for **three of the four top-tier A*-tourism journals**, accepting ≤5-10% of submissions. (The Australian Business Deans Council ranked <6.9% of journals as A*). Therefore developed a comprehensive understanding of tourism issues.

Cited **500+ times** in tourism, health, environment and land-use planning journals. **25 000+ views**.

EDUCATION

Doctor of Philosophy 2010
The University of NSW, Sydney top marks

Bachelor, Master of Science 1999/2003
Ludwig-Maximilians University, Munich
first class

Social and Environmental Science Background

Participation in **36 courses to advance skills** in research writing and communication including for government, grant writing, Statistics, technical software such as SPSS, R, ArcGIS.

RESEARCH EXPERIENCE – ONGOING

SENIOR RESEARCH FELLOW

2019–PRESENT

University of Wollongong (UOW), Australia

Lead and undertake research of ethnically diverse use of green space to better understand the meanings and experiences of 'green space' from the perspective of non-western ethnic minorities through an innovative geospatial mixed-method approach. I am undertaking this fellowship in the UOW's Australian Centre for Culture, Environment, Society and Space (ACCESS).

- Was offered this fellowship following a highly competitive selection process. I had also been offered a Research Fellowship by the University of Technology of Sydney including an additional 1-year teaching appointment. Both positions were offered following highly competitive multi-stage application processes with success rates of <10%.

ADJUNCT LECTURER

2014–PRESENT

Centre for Ecosystem Research, University of New South Wales (UNSW), Australia

Academic appointment to foster research collaborations. Showcases my collaborative approach to research in both government and academia.

- Title conferred as an acknowledgement of "achievement, expertise, leadership and excellence in the field".
- In 2017, promoted from Adjunct Associate Lecturer to Adjunct Lecturer in recognition of my career progression.
- Secured a reliable influx of UNSW research interns into NPWS visitor research programs to ensure cost-effective data collection. This has resulted in collaborative reporting, publishing, distribution and marketing of research and facilitates access to other UNSW resources for NPWS visitor research programs.

RESEARCH EXPERIENCE – COMPLETED

VISITOR RESEARCH AND ANALYSIS OFFICER

2010–2018

National Parks and Wildlife Service (NPWS), Office of Environment and Heritage (OEH), Australia

Managed NPWS' in-house and outsourced visitor research program, and delivered and communicated high-level research analysis and insights to advise on visitor experience development, management and marketing. This included research on park visitation estimates, NPWS market positioning, persuasive communication to encourage visitor compliance and innovative visitor monitoring to manage assets and experiences. My achievements include:

- Leading the development, implementation and management of major research projects to measure performance in delivery of government and corporate priorities and to inform and shape experience development, management and marketing. This includes:
 - Managing the highly complex NSW statewide NPWS Park Visitation Survey. Developed an unrivalled database of visitation to NPWS estate with great value as performance measure and benchmarking tool, deployed for visitor profiling and economic modelling.
 - Working with clients to understand insight needs, devise research methods and project plans, undertake, analyse, publish and present research. This includes statistical analysis and supervising research interns.
 - Improving the methodology and reliability of long-term research projects to adapt to changing needs.

- Reviewing research and consulting with internal and external subject-matter experts to accumulate market intelligence and formulate research plans.
- Negotiating with NPWS Executive and regional staff to obtain support, including up to \$350,000 project budgets. Managing up to \$1,200,000 procurement processes, OEH budgets within financial year constraints and contractors to deliver agreed outcomes. Was commended by the Head of Procurement for the high standards of my procurement activities and by my manager for astute budgeting skills. Attracted external funding through collaboration with tertiary institutions, including a \$462,000 Australian Research Council project.
- Ensuring timely distribution of research via technical reports, briefing notes, fact sheets, Ministerials, media releases, top-tier tourism journals and via research newsletters and IUCN guidelines. Preparing a central repository of research for the OEH webpage and Insite. Presenting technical research clearly to OEH Directors and Senior Managers and at major conferences. Commended for chairing the "best organised session 2014" at the leading international conference on park visitor monitoring.
- Preparing 20+ customised surveys to support NPWS staff and collaborating with external clients such as Events NSW to generate insights on visitor profiles, interests and satisfaction. This included visitor profiling and experience development for Montague Island, Royal National Park, park accommodation and facilities, risk management, Discovery tours, volunteering and events.
- Pioneering a progressive approach to stakeholder engagement through Public Participation Geographic Information Systems to map visitation, motivations and issues related to mountain biking and horse riding in parks. The research attracted over 800 participants, received overwhelmingly positive feedback and generated the largest database of these activities for Northern Sydney.
- Sharing visitor research program insights with research partners and stakeholders, including representing NPWS on cross-agency committees. Developing effective networks of internal and external collaborators including tertiary institutions, park agencies and tourism bodies to forge mutually beneficial partnerships.
- Contributing as research advisor to cross-project teams. Providing reliable and prompt research support and training, along with expert advice on tenders, grant applications and the OEH Social Science Strategy.

RESEARCH CONSULTANT

2016

Parks Australia

Evaluated and developed a plan for park visitor monitoring and surveying in collaboration with the Parks Victoria Visitor Research Officer.

- Prepared two technical reports as practical tourism research toolkits to assist in the commissioning and conducting of visitor research on parks.
- Provided guidance in contemporary methods, sample surveys, information on deployment and management of counters, secondary research sources and contacts for practical assistance.
- Received overwhelmingly positive feedback on the reports, innovative ideas and the ease of working with us. Recommendations were implemented by tourism and visitor service managers.
- Strengthened collaborative work with Parks Victoria and Parks Australia.

RESEARCH CONSULTANT

2009–2010

NSW Injury Risk Management Research Centre, UNSW, Australia

Employed survey design skills and conducted interviews with 350+ truck drivers across Australia on behalf of the NSW Road and Traffic Authority to research safety management.

DOCTOR OF PHILOSOPHY RESEARCHER

2006–2010

School of Biological Earth and Environmental Sciences, UNSW, Australia

Admitted to the degree of Doctor of Philosophy with top marks for research investigating sustainable visitor experiences that maximise visitor satisfaction and minimise impacts.

- Developed the first purpose-built visitor segmentation model for the Flinders Ranges, South Australia, to provide detailed insights into visitor profiles including on their knowledge of parks, interests, and behaviours. The model allows for the development of targeted market products that deliver engaging sustainable experiences.
- Improved knowledge about designing enriching visitor experiences, including wildlife viewing, and managing recreational infrastructure in protected areas.
- Greatly advanced conventional methods for monitoring visitor behaviour. Pioneered GPS tracking in Australia to monitor park visitor movements visualising visitation intensity on visitor 'heatmaps'.
- Produced five top-tier refereed papers, six conference presentations, two interviews and eight grants valued at \$158,800.
- Was awarded the 'Highly Commended' certificate for excellence in a PhD thesis by the Sustainable Tourism Cooperative Research Centre and a Research Award by the Australian Ecological Society.

RESEARCH CONSULTANT

2004

Piedras Biological Station, Peru

- Evaluated and devised a plan for long-term park visitation monitoring.

MASTER AND BACHELOR OF SCIENCE RESEARCHER

1997–2003

Ludwig-Maximilians-University, Munich, Germany

- BSc and MSc summa cum laude in Biology (special subject Ecology with additional courses on parks management).
- Achieved highest grades in MSc thesis and was highly commended for the quality by all reviewers. Self-sufficiently performed all aspects of the MSc research process to investigate the effects of Daphnia diel vertical migration requiring complex data collection and statistical analysis.
- Published two top-tier refereed papers.
- Attracted highly competitive funding amounting to \$38,000.
- Awarded with the greatest honour of receiving a scholarship for outstanding researchers by the prestigious German National Academic Foundation (acceptance rate <0.5%).

RESEARCH CONSULTANT

2000

Iguana Research & Breeding Station Utila, Honduras

- Interviewed tourism and other industry stakeholders and organised facilitation workshops and focus groups around conservation topics. Implemented results in a communication program that showcased value of species and landscapes for local communities and tourists.

RESEARCH ASSISTANT

1997

Archbold Biological Station, USA

Researched best-practice renaturation of vegetation communities.

RESEARCH ASSISTANT

1996–1997

US National Park Service, USA

Conducted visitor surveys and implemented insights in visitor experience development and interpretation, engaging with local park managers. Designed interpretative and marketing materials.

OTHER POSITIONS

ENVIRONMENTAL EDUCATOR

2004–2005

Friedrich-Maximilians-University, Nuremberg, Germany

Conceptualised and delivered experimental workshops on sustainable development and management of parks for schools, zoos, museums.

BIO-SOFTWARE MARKETER

2003

DEFINIENS, Munich, Germany

Marketed and provided technical support to industry clients and universities. Educated customers on products and provided customised solutions for increased sales. Drove growth by focusing on customer service, effective communication and teamwork.

FUNDING/GRANTS AND AWARDS

29 funding items in excess of \$2,400,000 including highly competitive funding and esteemed awards.

OEH Environmental Trust Grant reviewer, procurement committee chair, and expert assessor of various visitor research projects and tenders.

PUBLICATIONS

16 refereed journal articles; one refereed conference article; 15 technical reports and two other industry products; 25 conference abstracts (including four extended abstracts); four news items.

85 per cent of refereed journal articles as **first or second author**. **70 per cent in A* or A** top-tier journals, all articles in journals rated B or higher.

Citations = 500+; H-index = 13 (13 articles with ≥ 13 citations); top article about quantifying tourism usage in parks has been cited 50 times = **one of the most frequently cited tourism articles**.

REVIEWING

Expert reviewer for 29 journals for Elsevier, Taylor & Francis, Springer, Wiley, Cambridge and others, including for Tourism Management, Journal of Sustainable Tourism, Journal of Travel & Tourism Marketing and Environmental Management.

Current NSW Drivers Licence

I have a full Class C NSW Drivers Licence with no restrictions.

TEACHING EXPERIENCE

- Southern Cross University, Australia** 2016-2018
Honours research supervision
- National Parks and Wildlife Service (NPWS), Office of Environment and Heritage (OEH), Australia** 2010–present
Supervised research assistants, student interns and trained staff in a range of research techniques such as survey design, interviewing, data analysis.
- School of Biological Earth and Environmental Sciences, University of New South Wales, Australia** 2006–2010
Tutored in Conservation Biology and Biodiversity (BIOS 3071, 3671).
During my PhD research I supervised/trained student interns in experimental design, data entry, GPS use, field camp maintenance, OHS procedures and supervised student assignments. Held guest lectures on sustainable tourism management for tour operators in the Flinders Ranges.
- Friedrich-Maximilians-University, Nuernberg, Germany** 2004–2005
Environmental Educator
- Ludwig-Maximilians-University, Munich, Germany** 2001–2002
Assisted in teaching through invited lectures, tutoring/demonstrating and marking in Systematic Botany, Ecology and Experimental Design.

SPECIALISED SKILLS

ANALYTICAL SKILLS

- Proficiency in a wide range of advanced multivariate and univariate statistical analyses/model building and selection: GLM, GENLIN, MIXED Models, Chi-square, Kruskal-Wallis, Correlation, PCA, CLUSTER, SIMPROF, MDS, PERMANOVA+, ANOSIM, Indicator Species Analysis.
- Skilled in qualitative data analysis (e.g., interview data).
- Skilled in creating conceptual models of complex socio-ecological systems.
- Adept at performing in-depth literature reviews.

COMPUTING SKILLS (from 1 to 5 with 5 = most advanced)

- Quantitative (univariate and multivariate) Analysis: SPSS (4), PRIMER (3.5–4), PC-Ord (2), R (1)
- Qualitative Analysis: Nvivo (3)
- GIS: ArcGIS 9.3 (3.5); Graphing: Sigma Plot (2.5), Prism (1.5)
- Office: Word (4.5), Excel (4), Power Point (4), Access (2); Endnote (4)
- Adobe: Acrobat Pro (4), Photoshop (2.5), Dreamweaver (1.5)

Social Science Research Skills

- Proficiency in measuring socio-demographics, customer attitudes, satisfaction, motivations, etc.; human behaviour and spatial landscape usage.
- Experienced in the design of questionnaire-based surveys, interviews (incl. qualitative analysis), consumer market segmentation; Public Participatory Geographic Information Systems and GPS tracking for stakeholder engagement in spatial planning processes; behavioural observations; focus groups.

Flora and Fauna Sampling

- Extensive field sampling skills (pitfalls, point/transect counts, etc.); large-scale community assessments (vegetation, avifauna).

Career Advancement

- Statistics: R (5 d Mixed Models; UNSW), (2 d G(enlin)LMS; UNSW), (2 d General Intro; SIMS), (2 d-Intro; SIMS); Model Selection and Multimodel Inference (2d; MQU; Prof. David Anderson); Geostatistics using R (2 d; Flinders Uni); PRIMER/PERMANOVA (1 d; ESA conference – Prof. Marti Anderson); PCOrd (5 d; LMU); Experimental Design and

- Analysis using SPSS (3 d; LMU).
- Survey Design (2 d; UTS); Policy Writing (2 d; OEH); Procurement (1 d; OEH); Project Management (1 d; OEH); Teamsite Website Management (1 d; OEH); Eucalypt Identification Class (2 d; OEH); Grant Writing (1 d; OEH); EDRMS and TRIM Data Record Management (1 d; OEH)
- Public Speaking: Advanced (1 d; NIDA); Elementary (1 d; NIDA).
- Scientific Writing: Persuasive Writing (1d, Plain English Foundation); Writing Class (1 d; ESA conference); Principles of Writing (3 d; UNSW); Publishing Class (14 x 1.5 h; UNSW); Publishing Process (1/2 d; STCRC).
- Procurement (3 d; OEH); online eTendering (1 d OEH); Occupational Health and Safety (1 d; OEH); Workplace Code of Conduct (1 d, OEH).
- Environmental Impact Assessments and Legislation (14 x 1 h; UNSW).

FUNDING/GRANTS AND AWARDS

2019–Present	A\$400 000: University of Wollongong, Chief Investigator, "Green space, liveability and ethnic diversity: a geospatial analysis."
2016–2017	A\$330 000: NSW Office of Environment and Heritage, Principal Research Manager, " <i>Park Visitation Telephone Survey 2016.</i> "
2016	A\$10 000: Parks Australia, Co-investigator, " <i>A review and evaluation of visitor monitoring and surveying techniques.</i> "
2014–2015	A\$320 000: NSW Office of Environment and Heritage, Principal Research Manager, " <i>Park Visitation Telephone Survey 2014.</i> "
2013–2016	A\$12 000: NSW Office of Environment and Heritage, Chief Investigator, " <i>Transformative travel as a new market niche for protected areas.</i> "
2013–2016	A\$22 000: NSW Office of Environment and Heritage, Chief Investigator, " <i>The use of public participation GIS (PPGIS) for park visitor management.</i> "
2012–2014	A\$25 000: NSW Office of Environment and Heritage, Chief Investigator, " <i>Implementation of GPS tracking and GIS technology for park visitor facility management.</i> "
2012–2013	A\$18 000: NSW Office of Environment and Heritage, Chief Investigator, " <i>Walking, hiking and running in parks: a multidisciplinary assessment of health and well-being benefits.</i> "
2012–2013	A\$310 000: NSW Office of Environment and Heritage, Principal Research Manager, " <i>Park Visitation Telephone Survey 2012.</i> "
2012	A\$10 000: NSW Office of Environment and Heritage, Chief Investigator, " <i>Outcome-focussed national park experience management.</i> "
2011–2014	A\$462 000: ARC Linkage Grant affiliation between NSW Department of Environment and Conservation in partnership with Southern Cross, Murdoch, Curtin and Deakin Universities, Parks Victoria, the Western Australian Department of Parks and Wildlife, and the Parks Forum. Co-investigator, " <i>Promoting and Managing National Parks into the 21st Century.</i> "
2011–2012	A\$16 000: NSW Department of Environment and Conservation, Chief Investigator, " <i>Interpretive media that attract park visitors and enhance their experiences: a comparison of traditional and digital tools using GPS tracking and GIS technology.</i> "
2011	A\$2 500: NSW Department of Environment and Conservation, Chief Investigator, " <i>Visitor experiences in Royal National Park.</i> "
2011	A\$15 000: NSW Department of Environment and Conservation, Chief Investigator, " <i>How to use persuasive communication to encourage visitors to pay park user fees.</i> "
2010–2011	A\$300 000: NSW Department of Environment and Conservation, Principal Research Manager, " <i>Park Visitation Telephone Survey 2010.</i> "
2010	A\$2 500: NSW Department of Environment and Conservation, Co-investigator, " <i>Market Insights on Sydney Harbour Island Hopping 2010.</i> "
2010	A\$2 500: NSW Department of Environment and Conservation, Chief Investigator, " <i>Visitor experiences on Montague Island.</i> "

- 2010–present **A\$14 400:** NSW Office of Environment and Heritage (prior NSW Department of Environment and Conservation), numerous conference attendance and training scholarships which involve a competitive and complex application procedure (incl. Ministerial approval), especially if international or inter-state travel is required.
- 2010 **'Highly Commended' certificate of the Sir Frank Moore Award for excellence in a PhD** by the Sustainable Tourism Cooperative Research Centre.
- 2006–2009 **A\$128 000:** Endeavour International Postgraduate Research Scholarship by UNSW and the Australian government. Highly competitive, partially government-funded scholarship to attract top quality international postgraduate students to Australia.
- 2006–2009 **A\$10 500:** Sustainable Tourism Cooperative Research Centre Scholarship.
- 2006–2009 **A\$6 000:** UNSW Arid Zone Research Station Research Scholarship.
- 2006–2009 **A\$7 500:** In-house support by Flinders and Gammons Ranges National Park.
- 2006–2009 **A\$2 500:** UNSW Postgraduate Research Award.
- 2008 **A\$1 800:** Conference attendance scholarship by UNSW.
- 2007 **A\$500:** PhD Research Award by the Ecological Society of Australia.
- 2006 **A\$2 000:** Irma Wencke PhD research seed grant.
- 2000–2002 **A\$36 000: Scholarship for Outstanding Researchers by the German National Academic Foundation.** Highly competitive and subject to a multi-stage selection process; awarded to <0.5% of students at German universities.
- 1999 **A\$2 000:** German Academic Exchange Service, Chief Investigator, "*Stakeholder Situation surrounding the Conservation of the Endemic Uta Iguana in a complex Tourism Environment.*"

PEER-REVIEWED PUBLICATIONS

- (23) **Wolf, I.D.** (in prep.). Access to urban green spaces for everyone? A systematic quantitative review of visitor access.
- (22) **Wolf, I.D.** (in prep.). A systematic quantitative review of GPS tracking applications in visitor monitoring.
- (21) **Wolf, I.D.** & Wohlfart, T. (in prep.). Active in parks: Effectively communicating health and wellbeing benefits to park visitors.
- (20) Zabihi, H.H.K., Alizadeh, M., **Wolf, I.D.**, Karami, M., Ahmad, A., Salamian, H. (in prep). A GIS-based Fuzzy-Analytic Hierarchy Process (F-AHP) for Ecotourism Suitability Decision Making: A case study of Babol in Iran. **Tourism Management** xxx, xxx (5-year IF: 6.1; ABDC: **A***).
- (19) **Wolf, I.D.**, Croft, D.B. & Green R. (2019). The impacts and management of nature-based tourism: a review. **Environments** xxx, xxx 75–84 (5-year IF: xx; ERA: xx).
- (18) Sumanapala, D. & **Wolf, I.D.** (2019). The impacts and management of nature-based tourism: a review. **Environments** xxx, xxx 75–84 (5-year IF: xx; ERA: xx).
- (17) **Wolf, I.D.**, Brown, G. & Wohlfart, T. (2018). Applying Public Participation GIS (PPGIS) to inform and manage visitor conflict along multi-use trails. **Journal of Sustainable Tourism** 26(3), 470-495 (5-year IF: 4.3; ABDC: **A***).

- (16) **Wolf, I.D.**, Ainsworth, G., & Crowley J. (2017). Transformative travel as a sustainable market niche for protected areas: a new development, marketing and conservation model. **Journal of Sustainable Tourism** 25(11), 1650–1673 (5-year IF: 4.3; ABDC: **A***). **Recommended by journal Founding Editor for inclusion in Special Issue on Protected Areas and Sustainability.**
- (15) Weiler, B., Moyle, B.D., **Wolf, I.D.**, De Bie, K. & Torland M. (2017). Assessing the efficacy of communication interventions for shifting public perceptions of park benefits. **Journal of Travel Research** 56(4), 468-481 (5-year IF: 5.8; ABDC: **A***).
- (14) **Wolf, I.D.**, Wohlfart, T., Brown, G., & Bartolomé Lasa, A. (2015). The use of public participation GIS (PPGIS) for park visitor management: a case study of mountain biking. **Tourism Management** 51, 112–130 (5-year IF: 6.1; ABDC: **A***).
- (13) Torland M., Weiler, B., Moyle, B.D., & **Wolf, I.D.** (2015). Are your ducks in a row? External and internal stakeholder perceptions of the benefits of parks in New South Wales, Australia. **Managing Sport and Leisure** 20, 211-237 (ABDC: **B**).
- (12) **Wolf, I.D.** & Stricker, H.K. & Hagenloh, G. (2015). Outcome-focussed national park experience management: transforming participants, promoting social well-being, and fostering place attachment. **Journal of Sustainable Tourism** 23, 358-381 (5-year IF: 4.3; ABDC: **A***).
- (11) **Wolf, I.D.** & Wohlfart, T. (2014). Walking, hiking and running in parks: a multidisciplinary assessment of health and well-being benefits. **Landscape and Urban Planning** 130, 89–103 (5-year IF: 5.1; ERA: **A**).
- (10) **Wolf, I.D.** & Croft, D.B. (2014). Impacts of tourism hotspots on vegetation communities show a higher potential for self-propagation along roads than hiking trails. **Journal of Environmental Management** 143, 173–185 (5-year IF: 4.7; ABDC: **A**).
- (9) Weiler, B., Moyle, B.D., Torland M., **Wolf, I.D.** & Witsel M. (2014). Lessons learned from pilot testing an experimental communication intervention: generation Y and park benefits. **CAUTHE 2014: Tourism and Hospitality Research, Training and Practice.**
- (8) **Wolf, I.D.**, Hagenloh G. & Croft, D.B. (2013). Vegetation moderates impacts of tourism usage on bird communities along roads and hiking trails. **Journal of Environmental Management** 129, 224–234 (5-year IF: 4.7; ABDC: **A**).
- (7) **Wolf, I.D.**, Stricker, H.K. & Hagenloh, G. (2013). Interpretive media that attract park visitors and enhance their experiences: a comparison of traditional and digital tools using GPS tracking and GIS technology. **Tourism Management Perspectives** 7, 59–72 (IF: 1.8; ABDC: **B**).
- (6) Steckenreuter, A. & **Wolf, I.D.** (2013). How to use persuasive communication to encourage visitors to pay park user fees. **Tourism Management** 37, 58–70 (5-year IF: 6.1; ABDC: **A***).
- (5) **Wolf, I.D.** & Croft, D.B. (2012). Observation techniques that minimize impacts on wildlife and maximize visitor satisfaction in night-time tours. **Tourism Management Perspectives** 4, 164–175 (IF: 1.8; ABDC: **B**).
- (4) **Wolf, I.D.**, Hagenloh G. & Croft, D.B. (2012). Visitor monitoring along roads and hiking trails: How to determine usage levels in tourist sites. **Tourism Management** 33, 16–28 (5-year IF: 6.1; ABDC: **A***).
- (3) **Wolf, I.D.** & Croft, D.B. (2010). Minimizing disturbance to wildlife by tourists approaching on foot or in a car: A study of kangaroos in the Australian rangelands. **Applied Animal Behaviour Science** 126, 75–84 (5-year IF: 2.2; ERA: **B**).
- (2) Reichwaldt, E.S., **Wolf, I.D.** & Stibor, H., (2005). Effects of a fluctuating temperature regime experienced by Daphnia during diel vertical migration on Daphnia life history parameters. **Hydrobiologia** 543, 199–205 (5-year IF: 2.5, ERA: **B**).
- (1) Reichwaldt, E.S., **Wolf, I.D.** & Stibor, H., (2004). The effect of different zooplankton grazing patterns resulting from diel vertical migration on phytoplankton growth and composition: a laboratory experiment.

TECHNICAL REPORTS, EXTENDED ABSTRACTS AND NEWS ITEMS

- (26) **Wolf, I.D.** & Mendes, R.M.N. (2018). A decade worth of progress in the participatory monitoring and management of visitors in recreational and protected areas. *International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (MMV)*, Bordeaux, France, August 28–31.
- (25) Weiler, B., **Wolf, I.D.** & Canosa A. (2018). Nature Interpretation in Protected Areas: Connecting with Gen Y. *International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (MMV)*, Bordeaux, France, August 28–31.
- (24) **Wolf, I.D.** & De Bie, K.(2016). Parks Australia Visitor Surveys – a methodological Review. Centre of Environmental and Economic Research, the University of Melbourne on behalf of **Parks Australia**, Canberra.
- (23) De Bie, K. & **Wolf, I.D.**, (2016). Visitor Monitoring in Kakadu National Park: a methodological Review. Centre of Environmental and Economic Research, the University of Melbourne on behalf of **Parks Australia**, Canberra.
- (22) **Wolf, I.D.**, Ainsworth, G., & Crowley J. (2016). Transformative Travel: Concepts and Market Opportunities for Protected Areas – Product Review. **Office of Environment and Heritage**, Sydney.
- (21) **Wolf, I.D.**, Ainsworth, G., Alimane, C. & Bainbridge T. (2015). Transformative Travel: Concepts and Market Opportunities for Protected Areas – Annotated Bibliography. **Office of Environment and Heritage**, Sydney.
- (20) **Wolf, I.D.** & Wohlfart, T. (2015). Mountain Biking in Northern Sydney – Part 1: Rider Distributions. **Office of Environment and Heritage**, Sydney.
- (19) **Wolf, I.D.** & Wohlfart, T. (2015). Mountain Biking in Northern Sydney – Part 2: Rider Motivations. **Office of Environment and Heritage**, Sydney.
- (18) **Wolf, I.D.** & Wohlfart, T. (2015). Mountain Biking in Northern Sydney – Part 3: Rider Needs. **Office of Environment and Heritage**, Sydney.
- (17) **Wolf, I.D.** & Wohlfart, T. (2015). Mountain Biking in Northern Sydney – Part 4: Rider Preferences. **Office of Environment and Heritage**, Sydney.
- (16) **Wolf, I.D.** & Wohlfart, T. (2015). Horse Riding in Northern Sydney – Part 1: Rider Distributions. **Office of Environment and Heritage**, Sydney.
- (15) **Wolf, I.D.** & Wohlfart, T. (2015). Horse Riding in Northern Sydney – Part 2: Rider Motivations. **Office of Environment and Heritage**, Sydney.
- (14) **Wolf, I.D.** & Wohlfart, T. (2015). Horse Riding in Northern Sydney – Part 3: Rider Needs. **Office of Environment and Heritage**, Sydney.
- (13) **Wolf, I.D.** & Wohlfart, T. (2015). Horse Riding in Northern Sydney – Part 4: Rider Preferences. **Office of Environment and Heritage**, Sydney.
- (12) **Wolf, I.D.**, Wohlfart, T. & Brown, G., Bartolomé Lasa A. & Torland M. (2014). Managing and monitoring of mountain biking through public participation GIS. 7th International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (**MMV**) 2014.
- (11) **Wolf, I.D.**, Wohlfart, T. & Brown, G. (2014). The role of public participation GIS in protected areas management: a case study of mountain biking and horse riding. 20th International Symposium on Society and Resource Management (**ISSRM**) 2014.
- (10) **Wolf, I.D.**, Wohlfart, T., Hagenloh, G. & Stricker, H.K. (2014). Health and well-being benefits of visitor activities in parks. **PLA, ANZALS & NZRA Research Connections Newsletter**: Research in NSW and ACT.
- (9) Weiler, B., Moyle, B.D., Torland M., & **Wolf, I.D.** (2014). Public Perceptions of the Benefits Parks Provide for Visitors and to Society. **PLA, ANZALS & NZRA Research Connections Newsletter**: Research in NSW and ACT.

- (8) **Wolf, I.D.**, Stricker, H.K. & Hagenloh, G. (2012). The implementation of GPS tracking and GIS technology for park visitor management. 6th International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (**MMV**) 2012.
- (7) **Wolf, I.D.** (2010). Thesis Summary: Towards Sustainable Tourism in Outback Australia: The Behaviour and Impact of Nature-based Tourists on Vegetation and Selected Wildlife Species. **Bulletin of the Ecological Society of Australia 40**.
- (6) **Wolf, I.D.** & Croft, D.B., (2008). Wildlife by candlelight: A comparison of night-time observation techniques for their impact on wildlife and visitor satisfaction. **CAUTHE 2008: Tourism and Hospitality Research, Training and Practice**.
- (5) **Wolf, I.D.** (2007). From the Field – Outback News. **Education News of the Sustainable Tourism Cooperative Research Centre 5**.
- (4) **Wolf, I.D.** (2005). South American Ecosystems. Museum slide-show on behalf of **PD Dr Gansloßer lab, Friedrich-Alexander University, Nuernberg**.
- (3) **Wolf, I.D.** (2004). Educational Water Play for School Children. Technical report (in German) on behalf of **PD Dr Gansloßer lab, Friedrich-Alexander University, Nuernberg**.
- (2) **Wolf, I.D.** (2003). Proteomweaver. A Quickstart Manual. Technical manual (in German) on behalf of **DEFINIENS, Munich**.
- (1) **Wolf, I.D.** (2000). Stakeholder Situation surrounding the Conservation of the Endemic Utila Iguana in a complex Tourism Environment. Technical report (in German) on behalf of **Technical University Munich**.

PEER-REVIEW

Elsevier: Tourism Management, Landscape and Urban Planning, Computers, Environment and Urban Systems, Applied Geography, Tourism Management Perspectives, Biological Conservation, Journal of Outdoor Recreation, Journal of Environmental Management, Journal for Nature Conservation, Urban Forestry & Urban Greening, Preventive Medicine Reports, Environmental Impact Assessment Review.

Taylor & Francis: Journal of Sustainable Tourism, Leisure Sciences, Tourism Geographies, Journal of Travel & Tourism Marketing, Journal of Environmental Planning and Management, Journal of Ecotourism, Current Issues in Tourism.

Springer: Environmental Management, Journal of Mountain Science, Annals of Forest Science; Environment, Systems and Decisions.

Wiley: Applied Vegetation Science.

Cambridge: Environmental Conservation.

Other: PLOS ONE, Journal of Interpretation Research, Community Ecology.

CONFERENCE PRESENTATIONS, INVITED SEMINARS, WORKSHOPS

- (26) **Wolf, I.D.**, & Mendes, R.M.N. (2018). **Organised a special double session entitled "New methods for monitoring and management of visitors in recreational and protected areas: lessons learned, benefits and concerns."** *International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (MMV)*, Bordeaux, France, August 28–31.

- (25) **Wolf, I.D.** & Mendes, R.M.N. (2018). A decade worth of progress in the participatory monitoring and management of visitors in recreational and protected areas. *International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (MMV)*, Bordeaux, France, August 28–31.
- (24) Weiler, B., **Wolf, I.D.** & Canosa A. (2018). Nature Interpretation in Protected Areas: Connecting with Gen Y. *International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (MMV)*, Bordeaux, France, August 28–31.
- (23) **Wolf, I.D.** (2017). Applications of GIS in park visitor monitoring. **2nd World Congress on GIS and Remote Sensing**, Vienna, Austria, October 02–03.
- (22) **Wolf, I.D.** & Babich K. (2016). Participatory spatial planning in park visitor management. **Planning and Environment Cluster Spatial Directions 2016**, Sydney, Australia, November 16.
- (21) **Wolf, I.D.** (2016). Modern pathways to participatory geospatial human mobility monitoring. **Invited to present a keynote speech** at the 8th International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (**MMV**), Novi Sad, Serbia, September 26–30.
- (20) **Wolf, I.D.** (2016). Human dimensions of park visitor monitoring. **Invited seminar at Human Dimensions Working Group** meeting, Sydney, Australia, March 08.
- (19) **Wolf, I.D.**, & Hagenloh G. (2015). GPS tracking applications. **Invited seminar at Lambert Designs**, Wollongong, Australia, September 18.
- (18) **Collaboratively organised a workshop with Wildlife Tourism Australia: Green, R. & Wolf, I.D.** (2014). Wildlife tourism and conservation of biodiversity in parks. Parallel Event to the **World Parks Congress 2014**, Sydney, Australia, November 11.
- (17) **Invited to present a keynote speech: Wolf, I.D.**, Wohlfart, T., Stricker, H. & Hagenloh G. (2014). The transformative power of park visitor experiences: concepts and market opportunities for protected areas. **World Parks Congress 2014**, Sydney, Australia, November 12–19.
- (16) Weiler, B., Moyle, B.D., Zanon, D., Smith, A. & **Wolf, I.D.** (2014). Building support and maintaining relevance: Influencing perceptions of the benefits of parks using experimental communication interventions. **World Parks Congress 2014**, Sydney, Australia, November 12–19.
- (15) **Wolf, I.D.**, Wohlfart, T., Stricker, H. & Hagenloh G. (2014). Benefits of walking, hiking and running in parks: potential to transform communities. **Walk21**, Sydney, Australia, October 21–23.
- (14) **Wolf, I.D.**, Wohlfart, T. & Brown, G., Lasa A.B. & Torland M. (2014). Managing and monitoring of mountain biking through public participation GIS. 7th International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (**MMV**), Tallinn, Estonia, August 20–23.
- (13) **Wolf, I.D.**, Wohlfart, T. & Brown, G. (2014). The role of public participation GIS in protected areas management: a case study of mountain biking and horse riding. 20th International Symposium on Society and Resource Management (**ISSRM**), Hannover, Germany, June 8–13.
- (12) Weiler, B., Moyle, B.D., Torland M., **Wolf, I.D.** & Witsel M. (2014). Re-positioning the market position that park agencies occupy through websites. Council for Australian University Tourism and Hospitality Education 24th Conference (**CAUTHE**), Brisbane, Australia, February 10–13.
- (11) Croft, D. B., **Wolf, I.D.**, (2013). Who's watching whom? Research on minimising disturbance by the wildlife tourist in animal encounters. **Wildlife Tourism Australia Workshop**, Darwin, Australia, October 2–4.
- (10) Moyle, B. D. Weiler, B., Zanon, D., Smith, A., **Wolf, I.D.** & McLennan, C. (2013). Public perceptions of the benefits parks provide for visitors and to society, 19th **International Symposium on Society and Resource Management**, Colorado, USA, June 4–8.

- (9) **Wolf, I.D., Organised and chaired a special double session entitled 'Recent Advances in Visitor Monitoring: GPS tracking and GIS technology'**, (2012) International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (**MMV**), Stockholm, August 21–24.
- (8) **Wolf, I.D.**, Stricker, H.K. & Hagenloh, G. (2012). The implementation of GPS tracking and GIS technology for park visitor monitoring: a key to managing visitor assets and experiences. International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas (**MMV**), Stockholm, August 21–24.
- (7) **Wolf, I.D.**, Croft, D.B. & Hagenloh, G. (2011). Best-practice visitor monitoring: a key to understanding ecological impacts of recreation. Recreation Ecology Symposium at the **Ecological Society of Australia 36th** Conference, Hobart, Australia, November 21–25.
- (6) **Wolf, I.D.** (2010). Sustaining diversity of vegetation and bird communities in a tourism context. **Ecological Society of Australia 35th** Conference, Canberra, Australia, December 6–10.
- (5) **Wolf, I.D.** (2010). A call for tourism studies: wildlife experiences that maximize visitor satisfaction and minimize impact on wildlife. In: **Symposium** on people-wildlife interactions. Presented at the **Australasian Wildlife Management** Conference, Torquay, Australia, December 1–3.
- (4) **Wolf, I.D.** & Croft, D.B., (2010). Night-time observation techniques that minimize impact on wildlife and maximize visitor satisfaction. **RSPCA Scientific Seminar**, Canberra, Australia, February 23.
- (3) **Wolf, I.D.** & Croft, D.B., (2008). Tourism-induced changes in vegetation communities may diminish visitor satisfaction along roads and walking trails in South Australian gorges. **Ecological Society of Australia 33rd** Conference, Sydney, Australia, December 1–5.
- (2) **Wolf, I.D.** & Croft, D.B., (2008). Guidelines for the kangaroo whisperer: Ways to minimize disturbance during kangaroo observations by foot and car. **Australian Mammal Society 54th** Conference, Darwin, Australia, September 31–October 2.
- (1) **Wolf, I.D.** & Croft, D.B., (2008). Wildlife by candlelight: A comparison of night-time observation techniques for their impact on wildlife and visitor satisfaction. Council for Australian University Tourism and Hospitality Education 18th Conference (**CAUTHE**), Gold Coast, Australia, February 11–14.

Selected internal presentations

- (19) Moyle B.D., & Weiler B., facilitated by **Wolf I.D.** (2013). Benefits that Parks in New South Wales Offer: A Gap Analysis. OEH Senior Managers' meeting, Sydney, November.
- (18) Ericksson, D. & **Wolf, I.D.**, (2013). NSW National Park Visitation in 2012, OEH Directors' meeting, Sydney, July.
- (17) **Wolf, I.D.**, (2012). How to use persuasive communication to encourage visitors to pay park user fees, OEH Directors' meeting, Sydney, March.
- (16) **Wolf, I.D.**, (2012). Tourism & Partnerships Branch Research Agenda. OEH Senior Managers' meeting, Sydney, February.
- (15) Moyle B.D., & Weiler B., facilitated by **Wolf I.D.** (2012). Market Position Occupied by Parks Agencies.
- (14) Ericksson, D., & **Wolf, I.D.**, (2011). NSW National Park Visitation in 2010, OEH Directors' meeting, Sydney, June.
- (13) **Wolf, I.D.**, (2008). PhD Research Update seminar. Research Forum, UNSW, Sydney, June.
- (12) **Wolf, I.D.**, (2007). PhD Research Mid-term seminar. Research Forum, UNSW, Sydney, June.
- (2-11) **Wolf, I.D.**, (2006–2007). **Ten invited presentations** for stakeholders in the Flinders Ranges.
- (1) **Wolf, I.D.**, (2006). PhD Research Introductory seminar. Research Forum at UNSW, Sydney, June.

RADIO INTERVIEWS

- (2) **Wolf, I.D.**, (2007). Bats liven up night-time tourism. Interview with **ABC Radio** about bat observation in the Australian arid lands, regional broadcast, Australia, May.
- (1) **Wolf, I.D.**, (2007). Tourism spotlight shines on native animals. Interview with **ABC Radio** about nocturnal wildlife observation in the Australian arid lands, regional, state-wide and national broadcasts, Australia, February.