



PREFACE

Individual identification and photographic techniques in mammalian ecological and behavioural research—Part 1: Methods and concepts

Leszek Karczmarski^{1,2,3} · Stephen C. Y. Chan^{1,3} · Daniel I. Rubenstein⁴ · Scott Y. S. Chui^{2,3} · Elissa Z. Cameron⁵

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Editorial introduction to Part 1

Individual identification (individual-ID) of free-ranging animals has become a central tenet of studying many dimensions of animal behavior and ecology. It is often achieved through photographic means (photo-ID), where a photograph of an individually recognizable animal constitutes the sighting and marking–recapture event. This provides a powerful means of investigating animal sociality and various aspects of their population ecology. The adaptiveness of this approach in conjunction with its minimal intrusiveness makes it a tool of choice in many field studies, both marine and terrestrial. It has been applied across species and habitats, gathering a large variety of information, such as population parameters, processes and trends (e.g., Karanth 1995; Welch and Parker 2016; Chan and Karczmarski 2017; Gabriele et al. 2022), group dynamics, social behavior and social structure (e.g., Karczmarski et al. 2005; Wittemyer et al. 2005; Cantor et al. 2012; Rubenstein et al. 2015), movement, geographic range and range use pattern (e.g., Wittemyer et al. 2007; Rendell et al. 2014; Lee and Bolger 2017; Tang et al. 2021), and many other aspects of animals' daily lives (e.g., Lehmann and Boesch 2008; Crofoot et al. 2011; Cantor et al. 2016; Wrangham et al. 2016; Muller et al. 2018; Turner et al.

2021). It is largely thanks to the effective application of individual identification and mark–recapture techniques that our understanding of mammalian ecology, behavior, and socio-demographic processes have advanced so remarkably in the past half-a-century (Whitehead 2008; Clutton-Brock and Sheldon 2010).

Photo-ID research, however, remains among the most labor-intensive within the field of animal ecology, as processing the photographic material collected during field surveys consumes innumerable hours of painstaking dedicated effort. While recent advances in digital photography have greatly improved the efficiency of gathering data, many high-quality digital photographs obtained at low-cost result in vast amounts of data accumulated over short time periods. Under such circumstances, efficient data processing and management becomes a challenge. Lately, however, rapid advances in automated pattern-recognition and machine-learning algorithms have been catching up with current state-of-the-art digital photography, opening up this field of research to new possibilities and ideas of how to further improve the efficiency of field data collection (e.g., Schofield et al. 2019; Batchner et al. 2021; Machado and Cantor 2022), broaden the type, array and geographic scale of data collected during any given field day (e.g., Rieucau et al. 2018; Schneider et al. 2019; Khan et al. 2022), and—importantly—improve the efficiency of processing the individual-ID data immediately upon the completion of a field day (e.g., Lahiri et al. 2011; Guo et al. 2020; Thompson et al. 2022) and ensure the reliability of identification systems across long time-scales (e.g., Bodesheim et al. 2022; Cheeseman et al. 2022; Tyson Moore et al. 2022). Other photographic applications also received a fresh breath of new ideas, such as photogrammetry (e.g., Galimberti et al. 2019; Gray et al. 2019; Shirane et al. 2020; O'Connell-Rodwell et al. 2022; Richardson et al. 2022) or biodiversity and monitoring surveys (e.g., Miao et al. 2019; Tabak et al. 2019; Howell et al. 2022; Sun et al. 2022; Rydell

✉ Leszek Karczmarski
leszek.k@cetacea-institute.org

¹ Division of Cetacean Ecology, Cetacea Research Institute, Lantau, Hong Kong

² Division of Animal Behaviour, Cetacea Research Institute, Lantau, Hong Kong

³ School of Biological Sciences, University of Hong Kong, Pokfulam, Hong Kong

⁴ Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ, USA

⁵ School of Biological Sciences, University of Canterbury, Christchurch, New Zealand

Photographic Techniques In Scientific Research

Marcus Henry Stillman



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making and how photographic data is now integrated with computational analysis machine learning and artificial intelligence to unlock new scientific insights The Photographic Journal ,1924 Vols for 1853 include the transactions of the Royal Photographic Society of Great Britain **Government-wide Index to Federal Research & Development Reports** ,1967

A Photographic Method of Detecting Changes in a Complicated Group of Objects Marcus Henry Stillman,1920

Index of NACA Technical Publications United States. National Advisory Committee for Aeronautics,1954 Journal of the Photographic Society of London ,1895 Vols for 1853 include the transactions of the Royal Photographic Society of Great Britain Natural Science Imaging and Photography Michael R. Peres,2021-03-11 This book provides an in depth exploration of scientific photography Highlighting the best practices needed to make distribute and preserve scientific visual information using digital photographic methods and technologies it offers solutions to some of the biggest challenges facing photographers Written by a team of international award winning image makers with over 300 years of cumulative experience this comprehensive resource explains the foundations used the tools required and the steps to needed for creating the optimal photograph in a range of environments and circumstances Topics covered include ethical practices aerial photography close up and macro photography computational photography field photography geological photography imaging with invisible spectrums photographing small animals in captivity time based imaging image processing in science Showcasing modern methods this book equips readers with the skills needed to capture and process the best image possible Designed for basic and intermediate photographers Natural Science Imaging and Photography exists as an essential contemporary handbook *Monthly Catalog of United States Government Publications* , **Aeronautical Engineering Review** ,1957 **Health, Well-being and Social Inclusion** Sempik, Joe,Aldridge, Jo,Saul Becker,2005-05-18 Although there is interest among health and social care professionals in the therapeutic value of horticulture there is little evidence that demonstrates the range of outcomes for vulnerable groups This report addresses this gap presenting findings of the Growing Together project a study of horticulture and gardening projects across the UK *Technique for Objective Studies of the Vocal Art* Milton Metfessel,1925 **Remote Sensing of Earth Resources** NASA Scientific and Technical Information Facility,1970

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