

Matthew J Grainger

RESEARCHER

Norwegian Institute for Nature Research

📧 | ✉️ Matthew.Grainger@nina.no | 🏠 uncertainecologist.netlify.com | 📺 [DrMattG](#) | 🌐 www.linkedin.com/in/matthew-grainger-49880a36 | 🐦
Ed_pheasant

Wildlife, Uncertainty, Evidence synthesis, Decision models

Education and qualifications

Newcastle University

BSc (HONS) IN ZOOLOGY

Newcastle upon Tyne, UK

1994 - 1997

University of Pretoria

MSC IN CONSERVATION & PLANNING

Gauteng, South Africa

2004 - 2005

University of Pretoria

PHD ZOOLOGY

Gauteng, South Africa

2008 - 2012

Employment history

2021–	Researcher , Terrestrial biodiversity, Norwegian Institute for Nature Research, Trondheim, Norway
2019–2021	Postdoctoral Fellow , Terrestrial biodiversity, Norwegian Institute for Nature Research, Trondheim, Norway
2014–2019	Postdoctoral Research Associate , Modelling Evidence and Policy Group, Newcastle University, Newcastle, UK
2013–2014	Postdoctoral Research Associate , Research Impact (Faculty of Science, Agriculture and Engineering), Newcastle University
2011–2012	Conservation Research and Support Officer , The World Pheasant Association, Close House, Wylam, Newcastle
2005–2006	Research Co-ordinator , Frontier Tanzania, Terrestrial projects, Tanzania

Publications

NR Haddaway, CT Gray, M Grainger

Environmental Evidence

NOVEL TOOLS AND METHODS FOR DESIGNING AND WRANGLING MULTIFUNCTIONAL, MACHINE-READABLE EVIDENCE SYNTHESIS DATABASES

2021

G Gupta, M Grainger, JC Dunn, R Sanderson, PJK McGowan

bioRxiv

WHAT IS THE EVIDENCE AVAILABLE TO SUPPORT OUR KNOWLEDGE ABOUT THREATS TO THE CONSERVATION OF GALLIFORMES IN THE GREATER HIMALAYA?

2021

H Downey, T Amano, M Cadotte, CN Cook, SJ Cooke, NR Haddaway, ...

Ecological Solutions and Evidence

TRAINING FUTURE GENERATIONS TO DELIVER EVIDENCE-BASED CONSERVATION AND ECOSYSTEM MANAGEMENT

2021

MJ Grainger, FC Bolam, GB Stewart, EB Nilsen

Nature ecology & evolution

EVIDENCE SYNTHESIS FOR TACKLING RESEARCH WASTE

2020

B Cretois, JDC Linnell, M Grainger, EB Nilsen, JK Rød

Global Ecology and Conservation

HUNTERS AS CITIZEN SCIENTISTS: CONTRIBUTIONS TO BIODIVERSITY MONITORING IN EUROPE

2020

L Aramyan, M Grainger, K Logatcheva, S Piras, M Setti, G Stewart, ...

Measuring Business Excellence

FOOD WASTE REDUCTION IN SUPPLY CHAINS THROUGH INNOVATIONS: A REVIEW

2020

W Phumanee, R Steinmetz, R Phoonjampa, T Bejraburnin, M Grainger, ...

Ecosphere

OCCUPANCY-BASED MONITORING OF UNGULATE PREY SPECIES IN THAILAND INDICATES POPULATION STABILITY, BUT LIMITED RECOVERY

2020

TNE Gray, MJ Grainger, R Grosu

Conservation Science and Practice

CONSERVATION DECISION-MAKING UNDER UNCERTAINTY: IDENTIFYING WHEN TO REINTRODUCE TIGER PANTHERA TIGRIS TO CAMBODIA

2020

C Kandemir, C Reynolds, M Verma, M Grainger, G Stewart, S Righi, ...

Routledge Handbook of Food Waste

DISCRETE EVENT SIMULATION; MACHINE LEARNING; BAYESIAN NETWORKS; AGENT-BASED MODELLING; AND MASS BALANCE ESTIMATION

2020

M Crane, I Silva, MJ Grainger, GA Gale

bioRxiv

ON A WING AND A PRAYER: LIMITATIONS AND GAPS IN GLOBAL BAT WING MORPHOLOGY TRAIT DATA

2020

FC Bolam, MJ Grainger, KL Mengersen, GB Stewart, WJ Sutherland, ...

Biological Reviews

USING THE VALUE OF INFORMATION TO IMPROVE CONSERVATION DECISION MAKING

2019

J Carrick, MSAB Abdul Rahim, C Adjei, HHH Ashraa Kalee, SJ Banks, ...	<i>Journal of Flood Risk Management</i>
IS PLANTING TREES THE SOLUTION TO REDUCING FLOOD RISKS?	2019
NR Haddaway, A Feierman, MJ Grainger, CT Gray, E Tanriver-Ayder, ...	<i>Environmental evidence</i>
EVIATLAS: A TOOL FOR VISUALISING EVIDENCE SYNTHESIS DATABASES	2019
B Freeman, D Jiménez-García, B Barca, M Grainger	<i>Avian Research</i>
USING REMOTELY SENSED AND CLIMATE DATA TO PREDICT THE CURRENT AND POTENTIAL FUTURE GEOGRAPHIC DISTRIBUTION	2019
OF A BIRD AT MULTIPLE SCALES: THE CASE OF AGELASTES MELEAGRIDES, A ...	
MJ Whittingham, AJ McKenzie, RM Francksen, D Feige, T Cadwallender, ...	<i>Bird Study</i>
OFFSHORE REFUGES SUPPORT HIGHER DENSITIES AND SHOW SLOWER POPULATION DECLINES OF WINTERING RUDDY	2019
TURNSTONES ARENARIA INTERPRES	
M Grainger, S Piras, S Righi, M Setti, G Stewart, M Vittuari	<i>Refresh</i>
INTEGRATED MODEL OF CONSUMER BEHAVIOURS IN RELATION TO FOOD WASTE: BEHAVIOURAL ECONOMICS: D4. 4 LINKING	2019
BAYESIAN AND AGENT-BASED MODELS TO ASSESS CONSUMER FOOD WASTE	
M Grainger, EB Nilsen	
NEED FOR TRANSPARENT AND REPEATABLE CONSERVATION FRAMEWORKS: REPLY TO CHILD ET AL. 2019	2019
N SUKUMAL, MJ GRAINGER, T SAVINI	<i>Bird Conservation International</i>
LOWER LEVELS OF HUMAN DISTURBANCE CORRESPOND WITH LONGER-TERM PERSISTENCE OF ENDANGERED GREEN PEAFOWL	2019
PAVO MUTICUS POPULATIONS	
PJK McGowan, GB Stewart, G Long, MJ Grainger	<i>Nature Sustainability</i>
AN IMPERFECT VISION OF INDIVISIBILITY IN THE SUSTAINABLE DEVELOPMENT GOALS	2018
MJ Grainger, L Aramyan, S Piras, TE Qusted, S Righi, M Setti, M Vittuari, ...	<i>PloS one</i>
MODEL SELECTION AND AVERAGING IN THE ASSESSMENT OF THE DRIVERS OF HOUSEHOLD FOOD WASTE TO REDUCE THE	2018
PROBABILITY OF FALSE POSITIVES	
H Kendall, G Kaptan, G Stewart, M Grainger, S Kuznesof, P Naughton, ...	<i>Food Control</i>
DRIVERS OF EXISTING AND EMERGING FOOD SAFETY RISKS: EXPERT OPINION REGARDING MULTIPLE IMPACTS	2018
MJ Grainger, L Aramyan, K Logatcheva, S Piras, S Righi, M Setti, ...	<i>Global food security</i>
THE USE OF SYSTEMS MODELS TO IDENTIFY FOOD WASTE DRIVERS	2018
MJ Grainger, PJ Garson, SJ Browne, PJK McGowan, T Savini	<i>Biological conservation</i>
CONSERVATION STATUS OF PHASIANIDAE IN SOUTHEAST ASIA	2018
F Stephenson, AC Mill, CL Scott, GB Stewart, MJ Grainger, NVC Polunin, ...	<i>Marine Policy</i>
SOCIO-ECONOMIC, TECHNOLOGICAL AND ENVIRONMENTAL DRIVERS OF SPATIO-TEMPORAL CHANGES IN FISHING PRESSURE	2018
S Thunhikorn, MJ Grainger, PJK McGowan, T Savini	<i>Avian Research</i>
SPATIAL DISTRIBUTION OF DISPLAY SITES OF GREY PEACOCK-PHEASANT IN RELATION TO MICRO-HABITAT AND PREDATORS	2018
DURING THE BREEDING SEASON	
M Grainger, D Ngoprasert, P McGowan, T Savini	<i>Oryx</i>
INFORMING DECISIONS ON AN EXTREMELY DATA POOR SPECIES FACING IMMINENT EXTINCTION	2017
MJ Grainger, GB Stewart	<i>Resources, Conservation and Recycling</i>
THE JURY IS STILL OUT ON SOCIAL MEDIA AS A TOOL FOR REDUCING FOOD WASTE A RESPONSE TO YOUNG ET AL.(2017)	2017
LH Aramyan, MJ Grainger, K Logatcheva, S Piras, S Righi, M Setti, ...	<i>The</i>
FOOD WASTE REDUCTION IN SUPPLY CHAINS THROUGH INNOVATIONS: WHAT FACTORS AFFECT THE DECISION TO ADOPT	2017
INNOVATIONS	
M Grainger, G Stewart, S Piras, S Righi, M Setti, M Vittuari, LH Aramyan	<i>REFRESH</i>
D4. 3-MODEL INTEGRATION: INTEGRATED SOCIO-ECONOMIC MODEL ON FOOD WASTE	2017
M Grainger, G Stewart, S Piras, S Righi, M Setti, M Vittuari, LH Aramyan	<i>REFRESH</i>
D4. 2-MODEL DEVELOPMENT AND DATA PROTOCOL	2016
S Thunhikorn, MJ Grainger, PJK McGowan, T Savini	<i>RAFFLES BULLETIN OF ZOOLOGY</i>
ASSESSING THE POPULATION OF GREY PEACOCK-PHEASANT (POLYPLECTRON BICALCARATUM) IN A SOUTHEAST ASIAN	2016
CONSERVATION LANDSCAPE	
S Piras, S Righi, M Setti, M Vittuari, M Grainger, G Stewart	
ACKNOWLEDGMENTS & DISCLAIMER	2016
S Thunhikorn, MJ Grainger, PJK McGowan, T Savini	<i>Forktail</i>
METHODS USED TO SURVEY AVIAN SPECIES AND THEIR POTENTIAL FOR SURVEYING GROUND-DWELLING BIRDS IN ASIA	2016
S Thunhikorn, M Grainger, P McGowan	<i>Newcastle University</i>
A REVIEW OF METHODS USED TO SURVEY AVIAN SPECIES AND THEIR POTENTIAL FOR SURVEYING GROUND-DWELLING BIRDS IN	2016
ASIA	
S Thunhikorn, MJ Grainger, PJK McGowan, T Savini	<i>Raffles Bulletin of Zoology</i>
ASSESSING THE POPULATION STATUS OF GREY PEACOCK-PHEASANT (POLYPLECTRON BICALCARATUM) IN HUAI KHA KHAENG, A	2016
KEY CONSERVATION LANDSCAPE IN SOUTHEAST ASIA	

DP Mallon, M Hoffmann, MJ Grainger, F Hibert, N Van Vliet, ...

AN IUCN SITUATION ANALYSIS OF TERRESTRIAL AND FRESHWATER FAUNA IN WEST AND CENTRAL AFRICA

FHA Aalen, MJ Grainger, F Hibert, M Hoffmann, DP Mallon, ...

ANALYSE DE SITUATION DE L’IUCN CONCERNANT LA FAUNE TERRESTRE ET D’EAU DOUCE EN AFRIQUE CENTRALE ET DE L’OUEST

M Grainger, R van Aarde

CAN NON-NATIVE SPECIES EXPLAIN PATTERNS OF CONVERGENCE AND DEVIATION IN REGENERATING COASTAL DUNE FOREST?

MJ Grainger, RJ Van Aarde

THE ROLE OF CANOPY GAPS IN THE REGENERATION OF COASTAL DUNE FOREST

M Grainger, P McGowan, A McKenzie, J Minderman, JP Rodriguez, ...

METHOD FOR THE ASSESSMENT OF PRIORITIES FOR INTERNATIONAL SPECIES CONSERVATION (MAPISCO)

MJ Grainger, RJ Van Aarde

IS SUCCESSION-BASED MANAGEMENT OF COASTAL DUNE FOREST RESTORATION VALID?

PJK McGowan, LL Owens, MJ Grainger

GALLIFORMES SCIENCE AND SPECIES EXTINCTIONS: WHAT WE KNOW AND WHAT WE NEED TO KNOW

RAR Guldemond, MJ Grainger, MJ Trimble

WHERE IS THE EVIDENCE FOR ASSESSING EVIDENCE-BASED RESTORATION? COMMENTS ON NTSHOTSHO ET AL.(2010)

MJ Grainger, RJ van Aarde, TD Wassenaar

LANDSCAPE COMPOSITION INFLUENCES THE RESTORATION OF SUBTROPICAL COASTAL DUNE FOREST

MJ Grainger

AN EVALUATION OF COASTAL DUNE FOREST RESTORATION IN NORTHERN KWAZULU-NATAL, SOUTH AFRICA

MJ Grainger, RJ Van Aarde

RESILIENCE OF THE MEDICINAL PLANT COMMUNITY OF REHABILITATING COASTAL DUNE FORESTS, KWAZULU-NATAL, SOUTH

AFRICA

C Bonnington, M Grainger, S Dangerfield, E Fanning

THE INFLUENCE OF ELECTRIC FENCES ON LARGE MAMMAL MOVEMENTS IN THE KILOMBERO VALLEY, TANZANIA

C Bonnington, MD Steer, J Lamontagne-Godwin, N Owen, M Grainger

EVIDENCE FOR LOCAL DECLINES IN TANZANIA’S PUKU ANTELOPE (KOBUS VARDONI LIVINGSTONE, 1857) POPULATION BETWEEN

1999 AND 2003

M Grainger, R Van Aarde, I Whyte

LANDSCAPE HETEROGENEITY AND THE USE OF SPACE BY ELEPHANTS IN THE KRUGER NATIONAL PARK, SOUTH AFRICA

*Occasional paper of the IUCN
species survival commission*

2015

IUCN

2015

Ecological Restoration

2015

African Journal of Ecology

2013

2013

Ecological Restoration

2012

Animal Biodiversity and

Conservation

2012

Restoration Ecology

2012

Restoration Ecology

2011

University of Pretoria

2011

Wiley-Blackwell

2011

African Journal of Ecology

2010

African Journal of Ecology

2010

African Journal of Ecology

2005