

#BOU2023

## Evolutionary responses

4-6 April 2023 | In-person and on Twitter!



## IN-PERSON & TWITTER PROGRAMME

- All times are BST (UTC+1) – please use this [time zone convertor](#) for your local time.
- In-person presenters will tweet a summary of their presentation on Twitter during their presentation slot.
- Twitter-only and poster presentations will be tweeted during breaks in the programme.

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DAY 1 – TUESDAY, 4 APRIL 2023

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1400 -1600 ECR Workshops | The Exchange (C1 / C4 / C34)

1500 - 1800 Accommodation check-in | Jubilee Welcome Point (Newark Hall)

1700 Registration opens | The Exchange

1700 - 2200 Time to view posters and exhibits & enjoy Twitter presentations via #BOU2023 | The Exchange (C3)

### TWITTER PRESENTATIONS

#BREAK1

1730 **Microbiome underlying winter adaptations in wild populations of Great Tits (*Parus major*)**

Poster & Twitter Charli Davies (she/her) | University of Jyväskylä, Finland | [@CharliSDavies](#)

1740 **Actions of microplastic-derived endocrine disrupting chemicals on seabird epigenetics**

Poster & Twitter Christina Biamis | Queen's University Belfast, UK | [@CBiamis](#)

1750 **Super birds: The majority of avian blood metabolites are not altered by urban environments**

Twitter-only Karen Sweazea | Arizona State University, USA | [@CompPSIO](#)

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1900 **DINNER** | The Atrium

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### ALFRED NEWTON LECTURE | THE EXCHANGE (C.LT2) #ALFREDNEWTONLECTURE

2030 **Welcome**

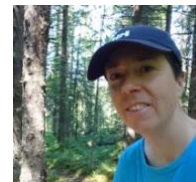
Juliet Vickery (she/her) | BOU President & British Trust for Ornithology, UK | [@juliet\\_vickery](#)

**Integrating seasonal movements into evolutionary ecology**

Jane Reid | University of Aberdeen, UK & Norwegian University of Science and Technology, Norway | [@janemreid1](#)

- 2200 Time to view posters and exhibits

- 2330 **BAR** | Newark Hall



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DAY 2 – WEDNESDAY, 5 APRIL 2023

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0730 **BREAKFAST** | The Atrium

0830 Registration opens | The Exchange

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**SESSION 1 – PHENOLOGICAL CHANGES | THE EXCHANGE (C.LT2)**

**#SESH1**

0900 **WELCOME TO THE CONFERENCE**

& Chair: Juliet Vickery (she/her) | BOU President & British Trust for Ornithology, UK | [@juliet\\_vickery](#)

0905 **KEYNOTE**

**Evolution of phenology in a spatio-temporal context**

Ben Sheldon | Edward Grey Institute, University of Oxford, UK |

[@Ben\\_Sheldon\\_EGI](#)



0935 **Consequences of genomic selection for early and late avian lay date in the wild**

Melanie Lindner (she/her) | Netherlands Institute of Ecology (NIOO-KNAW) | [@Me\\_Lindner](#)

0950 **Selection and evolution of phenological plasticity in a fluctuating natural environment**

Suzanne Bonamour (she/her) | CESCO, National Museum of Natural History, France | [@SuzanneBonamour](#)

[@SuzanneBonamour](#)

1005 **Separating the contributions of plasticity and local adaptation to spatial variation in Redstarts' breeding phenology**

Ilaria Lonerio (she/her) | University of Edinburgh, UK | [@Lonerollaria](#)

1020 **Repeatability of, and environmental effects on, the migratory phenology of a long-distance migratory seabird**

Nathalie Kürten (she/her) | Institute of Avian Research, Germany | [@CommonTerns](#)

1035 **Speedy Posters!**

30 second poster elevator pitches | Various presenters

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1045 **TEA & COFFEE** | The Exchange (C3)

Time to view posters and exhibits & enjoy Twitter presentations via #BOU2023

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**TWITTER PRESENTATIONS**

**#BREAK2**

1045 **Behavioural responses to anthropogenic noise in an urban-living passerine**

Twitter-only Grace Blackburn (she/her) | University of Western Australia, Australia | [@G\\_Blackburn\\_](#)

1055 **Interactive effects of rising temperatures and urbanisation on birds: a mechanistic perspective**

Petra Sumasgutner | Konrad Lorenz Research Centre, Austria | [@PeSumas](#)

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1105 **ALAN as a driver of urban colonization by owls**  
Twitter-only Airam Rodríguez | National Museum of Natural Sciences, Spain | [@Airam\\_Rguez](#)

### SESSION 2 – MOVEMENT AND SPACE USE | THE EXCHANGE (C.LT2)

#SESH2

Chair: Simon Evans (he/him) | University of Exeter, UK | [@evanssre](#)

#### 1130 **KEYNOTE**

##### **How do migratory mechanisms influence responses to climate changes?**

Joe Wynn (he/him) | Institute of Avian Research, Germany & University of Oxford, UK | [@joewynn\\_birds](#)



#### 1200 **Molecular evolution of a potential magnetoreceptor in birds**

Corinna Langebrake (she/her) | Institute of Avian Research, Germany | [@c\\_langebrake](#)

#### 1215 **Eco-evolutionary dynamics in partially migratory metapopulations**

Thomas Haaland (he/him) | Norwegian University of Science and Technology, Norway | [@trhaaland](#)

#### 1230 **Beating the bandit: the unexpected consequences of predictor-error in climatic model selection**

Georg Manthey (he/him) | Institute of Avian Research, Germany | [@mantheyrochen](#)

#### 1245 **LUNCH** | The Atrium

Time to view posters and exhibits (The Exchange, C3) & enjoy Twitter presentations via #BOU2023

#### 1315 - 1400 **WILDLIFE ACOUSTICS WORKSHOP**

##### **Bioacoustics as a research tool for birds: from data collection to analysis**

Paul Howden-Leach | Wildlife Acoustics | The Exchange (C1)

### TWITTER PRESENTATIONS

#BREAK3

1245 **Migration tactics of a nocturnal insectivore in response to ecological barriers**  
Poster & Twitter Michiel Lathouwers (he/him) | Hasselt University, Belgium | [@MichielLat](#)

1255 **From take-off to touch down: how has extreme weather impacted migration timing in a long-distance and long-lived migratory seabird?**  
Poster & Twitter Niamh Esmonde (she/her) | Queen's University Belfast, UK | [@NiamhEsmonde](#)

1305 **Temperature and microclimate refugia influence movement strategy and environmental niche by an endangered grassland bird**  
Poster & Twitter Rita Ramos (she/her) | University of East Anglia, UK | [@aldinafranco](#)

1315 **Additive genetic variance in early-life partial seasonal migration**  
Poster & Twitter Rita Fortuna (she/her) | Norwegian University of Science and Technology, Norway | [@ritaafortuna](#)

1325 **Biological clocks in the wild: the effects of light pollution in a migratory bird**  
Twitter-only Sayuri Díaz Palma (she/her) | Jagiellonian University, Poland | [@SayuriD5](#)

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### SESSION 3 – RESPONSES TO ENVIRONMENTAL POLLUTION | THE EXCHANGE (C.LT2) #SESH3

Chair: Sandra Bouwhuis (she/her) | Institute of Avian Research, Germany | [@CommonTerns](#)

#### 1415 **KEYNOTE**

**The cocktail of urban pollutants and its impacts on birds**

Caroline Isaksson | Lund University, Sweden | [@Carolinelsak](#)



1445 **The effects of soot on zebra finch (*Taeniopygia guttata*) physiology: an experimental approach**

Susana Garcia Dominguez (she/her) | Lund University, Sweden | [@suus\\_gd](#)

1500 **Mercury uptake across time and space in a long-lived migratory seabird**

Justine Bertram (she/her) | Institute of Avian Research, Germany | [@CommonTerns](#)

1515 **Diversity in ornithology: BOU progress and people**

**Presentation of Janet Kear Union Medal**

Juliet Vickery (she/her) | BOU President & British Trust for Ornithology, UK | [@juliet\\_vickery](#)

1530 **TEA & COFFEE** | The Exchange (C3)

Time to view posters and exhibits & enjoy Twitter presentations via #BOU2023

### TWITTER PRESENTATIONS

#BREAK4

1530 **Individual level foraging responses to environmental change in a long-lived seabird**

Poster & Twitter Frederick Mckendrick (he/him) | University of Liverpool, UK | [@FreddieMck121](#)

1540 **With so much plasticity, how can we reliably demonstrate true evolutionary responses?**

Poster & Twitter Mark Eddowes (he/him) | Independent researcher | [@markeddowes](#)

1550 **Evidence of niche changes and their association with population trends and avian traits**

Twitter-only Pietro Tirozzi (he/him) | University of Milano-Bicocca, Italy | [@TirozziPietro](#)

### SESSION 4 – GENETIC AND EPIGENETIC RESPONSES | THE EXCHANGE (C.LT2)

#SESH4

Chair: Erik Postma | University of Exeter, UK | [@erik\\_postma](#)

#### 1615 **KEYNOTE**

**What role do epigenetic mechanisms play in avian adaptation? A case study of seasonal timing of reproduction**

Arild Husby | Uppsala University, Sweden | [@arild\\_husby](#)



1645 **Early-life development of migratory plasticity to environmental change in the European Shag**

Cassandra Ugland | Norwegian University of Science and Technology, Norway | [@trhaaland](#)

1700 **An experimental assessment of adaptation to environmental change**

Simon Evans (he/him) | University of Exeter, UK | [@evanssre](#)

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1715      **Temperature-induced plasticity in nestling growth and physiology in wild nest-box breeding passerines**

Bin-Yan Hsu (he/him) | University of Turku, Finland | [Twitter](#) @binyannhsu

1730      **Multi-generational fitness effects of immigrants indicate strong heterosis and epistatic breakdown that shape gene flow in a natural meta-population**

Lisa Dickel (she/her) | Norwegian University of Science and Technology, Norway | [Twitter](#) @LisaDickel

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1800      **BOU ANNUAL GENERAL MEETING** | The Exchange (C.LT2)

All welcome

1830      **BOU ECR EVENT** | The Exchange (C1 / C4 / C34)

1800 - 1945      Time to view posters and exhibits | The Exchange (C3)

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2000      **DINNER** | The Atrium

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- 2330      **BAR** | Newark Hall

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DAY 3 – THURSDAY, 6 APRIL 2023

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0730 **BREAKFAST** | The Atrium

0830 Registration opens | The Exchange

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### SESSION 5 – RAPID RESPONSES TO URBANISATION | THE EXCHANGE (C.LT2)

#SESH5

Chair: Emily Simmonds | Norwegian University of Science and Technology, Norway | @EmilySimmonds10

0900 **KEYNOTE**

**Great Tits in the city: a tale of (mal)adaptation?**

Anne Charmantier | Center for Functional and Evolutionary Ecology, France |

🐦 @AnneCharmantier



0930 **Colours of evolution: plumage coloration as marker of divergent selection between city and countryside**

Nicolas Bekka (he/him) | Institute of Ecology and Environmental Sciences of Paris, France | 🐦

@Nicolas\_Bekka

0945 **Who eats the junk food? Age-mediated differences in access to landfill resources**

Bruno Herlander Martins | CIBIO-University of Porto, Portugal & University of East Anglia, UK |

🐦 @BrunoHerlander

1000 **Temporal effects of local tree composition on urban birds**

Johan Kjellberg Jensen (he/him) | Lund University, Sweden | 🐦 @JohanKjensen1

1015 **Why do birds incorporate anthropogenic materials into their nests?**

Zuzanna Jagiełło (she/her) | Poznań University of Life Sciences, Poland | 🐦 @JagielloZuzanna

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1030 **TEA & COFFEE** | The Exchange (C3)

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### TWITTER PRESENTATIONS

#BREAK5

1030 **Hatching from the pointed end of the egg: a case in whimbrel**

Poster & Twitter Camilo Carneiro | University of Iceland & University of Aveiro, Portugal | 🐦 @Camilo\_Carneiro

1040 **Habitat selection and nest survival in whinchats and stonechats: implications for conservation**

Poster & Twitter Martin Werner Küblbeck (he/him) | MPI for Biological Intelligence, Germany | 🐦 @MartinKueblbeck

1050 **Eggshell appearance reflects female quality, a meta-analysis in birds**

Poster & Twitter Norah Alhowiti (she/her) | University of Glasgow, UK | 🐦 @biologist\_ns

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### SESSION 6 – BEHAVIOURAL AND MORPHOLOGICAL CHANGES IN NOVEL ENVIRONMENTS

| THE EXCHANGE (C.LT2)

#SESH6

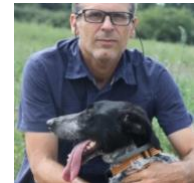
Chair: Ferran Sayol | Centre for Research on Ecology and Forestry Applications, Spain |  @FerranSayol

#### 1115 **KEYNOTE**

##### **Behaviour, life history and persistence in novel environments**

Daniel Sol | Centre for Ecological Research and Applied Forestries, Spain |

 @DaniSolRueda



#### 1145 **Great Tit learning abilities variation in an urban world**

Thomas Crouchet (he/him) | Toulouse University, France |  @ThomasCrouchet


#### 1200 **Citril Finch wing length changes along >25 years: natural selection under climate change?**

Juan Carlos Senar (he/him) | Museum of Natural Sciences of Barcelona, Spain |  @SenarJC

#### 1215 **The dark side of the night**

Ruben Evens (he/him) | Antwerp University, Belgium |  @RevNJ

#### 1230 **Biophysical constraints on the morphological diversity of birds**

Ferran Sayol | Centre for Research on Ecology and Forestry Applications, Spain |  @FerranSayol

#### 1245 **LUNCH** | The Atrium

Time to view posters and exhibits (The Exchange, C3) & enjoy Twitter presentations via #BOU2023

1400 Voting for best ECR presentations closes

### TWITTER PRESENTATIONS

#BREAK6

#### 1300 **Developmental plasticity explains relative bill size according to Allen's rule in a Mediterranean raptor**

Twitter-only

Alejandro Corregidor-Castro | University of Padova, Italy |  @AlexCoCastro

#### 1310 **Preliminary findings on ecology and genetics of House Sparrow (*Passer domesticus*) in select districts of Gujarat, India**

Twitter-only

Anamika Gautam | Salim Ali Centre for Ornithology and Natural History, India |  @agsacon343

### SESSION 7 – SPECIES INTERACTIONS AND COMMUNITY-LEVEL RESPONSES

| THE EXCHANGE (C.LT2)

#SESH7

Chair: Maria Moiron | Institute of Avian Research, Germany |  @MariaMoironn

#### 1415 **KEYNOTE**

##### **Does social information use help or hinder Reed Warblers vs. Cuckoos coevolving in a geographic mosaic?**

Rose Thorogood | University of Helsinki, Finland |  @informedbirds



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- 1445      **Trophic interactions and fitness: incorporating the full phenological distribution**  
Kirsty Macphie (she/her) | University of Edinburgh, UK | [🐦 @KMacphie](#)
- 1500      **Highly pathogenic avian influenza as a novel agent of selection in breeding seabirds**  
Sandra Bouwhuis (she/her) | Institute of Avian Research, Germany | [🐦 @CommonTerns](#)
- 1515      **Habitat heterogeneity modulates non-linear effects of anthropogenic landscapes on avian biodiversity in a megadiverse tropical forest**  
Lisieux Fuzessy (she/her) | Centre for Ecological Research and Applied Forestries, Spain | [🐦 @LFuzessy](#)
- 1530      **CONFERENCE CLOSE**  
Juliet Vickery (she/her) | BOU President & British Trust for Ornithology, UK | [🐦 @juliet\\_vickery](#)
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**TEA & COFFEE** | The Exchange (C3)

Departure