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Department of Life and Environmental Sciences

BSc Ecology and Wildlife Conservation

Dr Anita Diaz – Programme Leader

#BUopenday
#belongatbu

Contents of this talk

- Introduction to Ecology & Wildlife Conservation course
- Who teaches on the course (programme)
- Key features of the course
- What to expect on the course
- Employability gains - skills and experience

Key features of the course – the people

- Research-led teaching and scientific underpinning of courses
- Lecturers active in their areas of research and enthusiastic about their subjects: examples on [Snapshot Science](https://sites.google.com/view/snapshot-science/home):
<https://sites.google.com/view/snapshot-science/home> and the Wessex Portal: <http://www.wessexportal.co.uk/>
- Staff with diverse interests – a few examples on next slides and



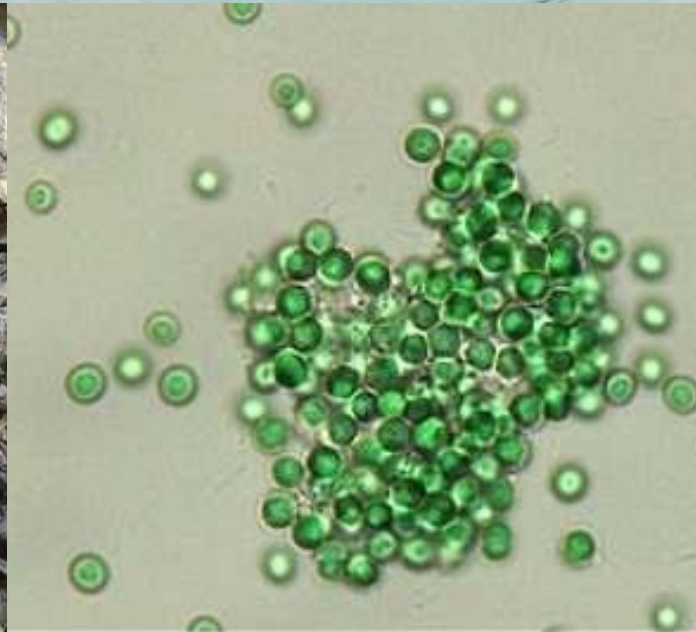
Terrestrial Wildlife

Anita Diaz - Programme (course) leader
Kathy Hodder
Amanda Korstjens
John Stewart

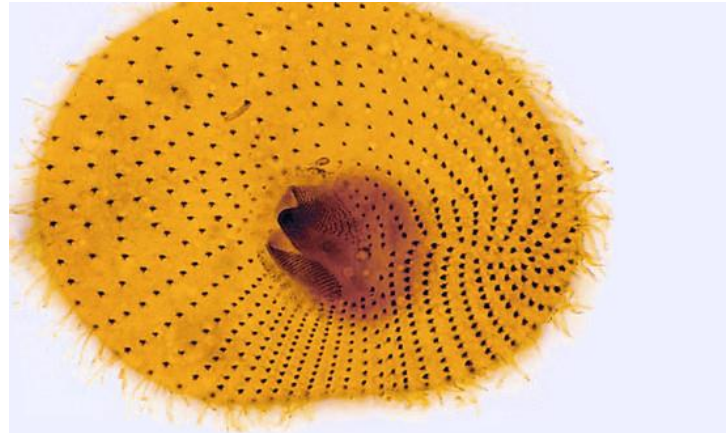


Marine Wildlife

Rick Stafford
Richard Stillman
Roger Herbert
Dan Franklin



Rob Britton
Adrian Pinder
Genoveva Esteban

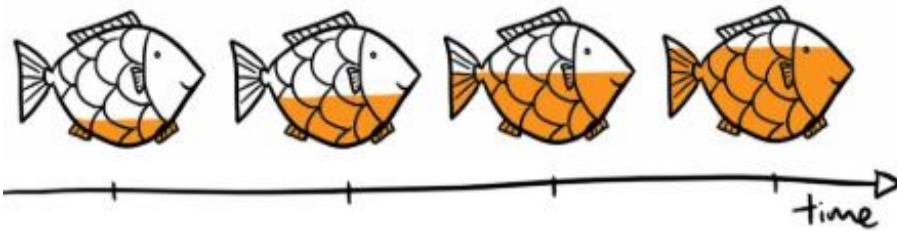


Genetics & Environmental Pollution (Labs)

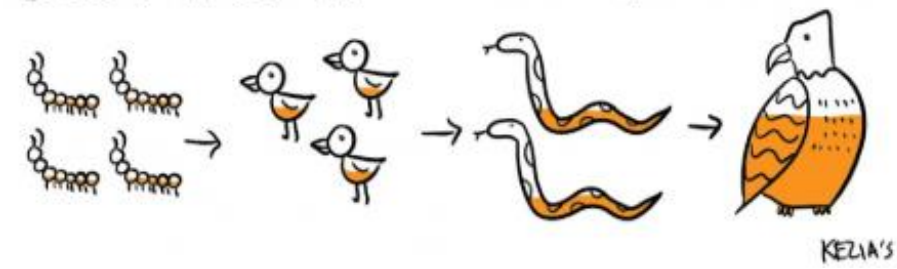
Emilie Hardouin
Paul Hartley
Demetra Andreou
Wei-Jun Liang
Iain Green

BIOACCUMULATION

■ - contaminant



BIO MAGNIFICATION



World Forests & Remote Sensing GIS

Ross Hill
Duncan Golicher
Andy Ford
Adrian Newton



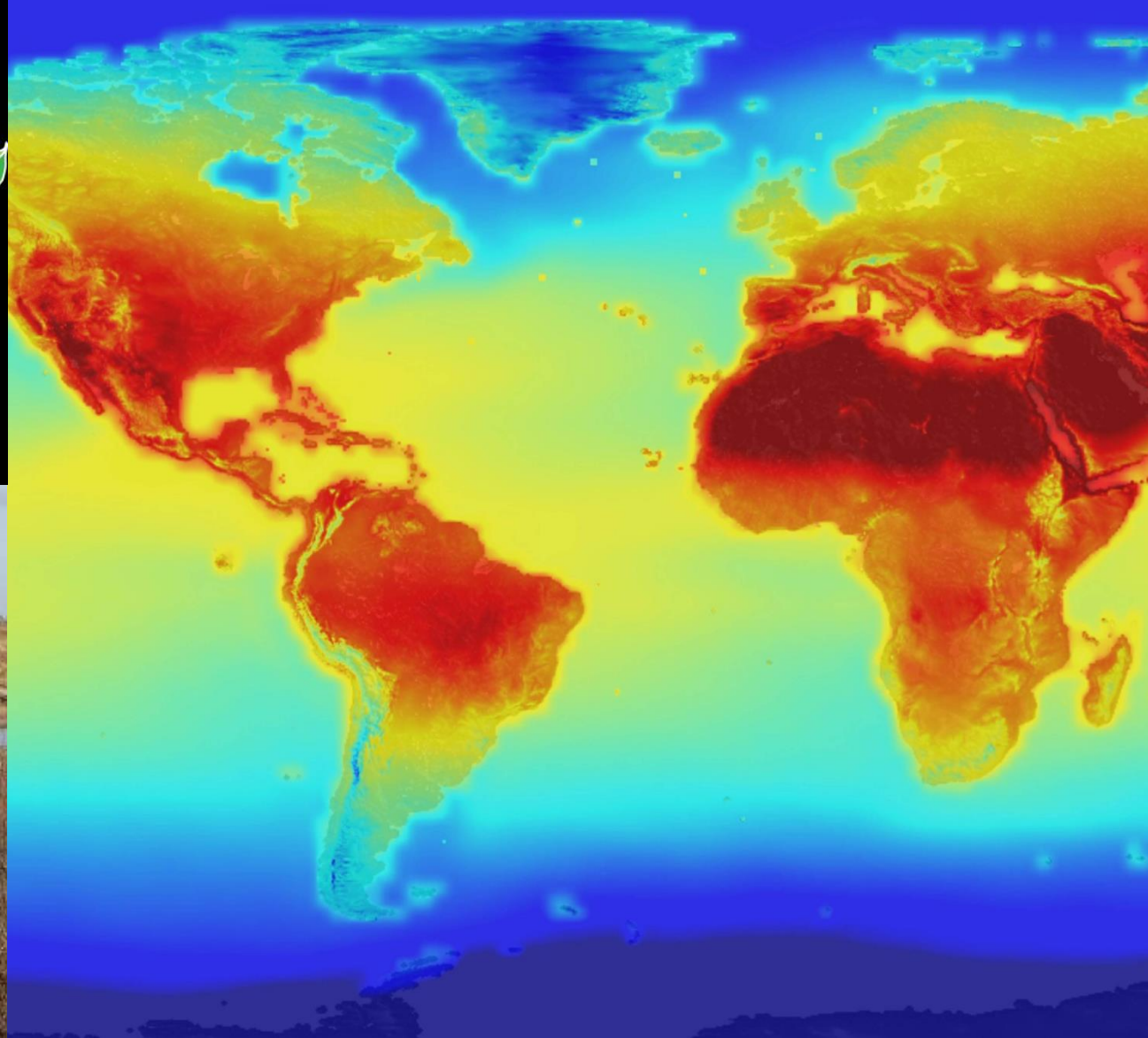
The Red List of Mexican Cloud Forest Trees

Editors: Mario González-Espinosa, Jorge A. Meave,
Francisco G. Lorea-Hernández, Guillermo Ibarra-Manríquez and Adrian C. Newton



Climate, Sustainability & Society Challenges

Pippa Gillingham
Elena Cantarello
Marin Cvitanovic
Luciana Esteves
Chris Sheil



Key features of the course – the place

- Benefiting of the outstanding natural surroundings
- World Heritage Site
- Biodiversity hotspot
- National Parks and Nature Reserves



Poole Harbour Special Protection Area



New Forest National Park



Jurassic Coast World Heritage Site



Bournemouth – a great place to study and live



- Science, Technology, Engineering & Mathematics (**STEM**) subjects are seen as vital to economic recovery
- **More than 3 million new STEM jobs 2015-2018**
- And science graduates are in demand in *all* areas of employment - **superior skills in problem solving**

BSc Ecology and Wildlife Conservation

- Research-based scientific education
- Personal Academic Advisors (tutors) help you learn core skills
- Two 5 week placements (end of 1st and 2nd year) or optional 30 week placement (3rd year)
- Independent research project (3rd year)
- Residential field course in UK (1st year)
- Optional international field course (2nd year)
- Increasing options to choose from

BSc Ecology and Wildlife Conservation

1st year

- Ecological Research Skills, Ecology, Physical Geography, Wildlife Protection, Diversity of Life, Residential Field Trip

2nd year

- Advanced Skills for Conservation, Ecosystems, Evolutionary Biology, Wildlife Survey Skills

Choose two options from:

- Environmental Pollution, Geographical Information Systems, Environmental and Societal Challenges, International Field Trip, Applications of Environmental Science, Microbiology, Marine Geography, Quaternary Environments, Animal Biology, Behavioural Ecology

3rd year

- Independent research project

Choose four options from:

- Globalisation and Sustainable Development, Parasitology and Epidemiology, Climate and Environmental Change, Applied Biogeography, Environmental Remote Sensing, Primate Behavioural Ecology, Topics in Wildlife Conservation, Environmental Law and Management, Biological Oceanography, Emergence and Extinction, Freshwater Resource Management, Marine Conservation

Making the transition to university

Induction focused on:

- The transition to university education
- Professional skills
- Personal goal setting
- Strategies for success
- Developing networks
- Extracurricular activities:
e.g. student clubs & societies, volunteering opportunities



Support available throughout your study includes:

Academic support

- Disability & Additional Learning Support
- Language Centre
- Library & Learning Support

Health and wellbeing

- Chaplaincy
- Counselling
- Medical Centre

Course-specific support

- Peer-assisted learning (PAL) sessions
- Programme leaders
- Academic Advisor (Personal tutor)
- Student reps

Study support

- Academic writing
- Exam and revision techniques
- Presentations
- Referencing
- Avoiding plagiarism

Student feedback on within-curriculum learning

‘The course has provided me with a broad range of educational tools which I can apply in an environmental and/or conservation based career.

Andrew Fisher, BSc Ecology & Wildlife Conservation

‘The variety of subjects available within the course adds significant value to a C.V. In addition, being able to focus during the third year on areas of particular interest has made for a more ‘tailor made’ experience.’

Ann Thornton, BSc Ecology & Wildlife Conservation

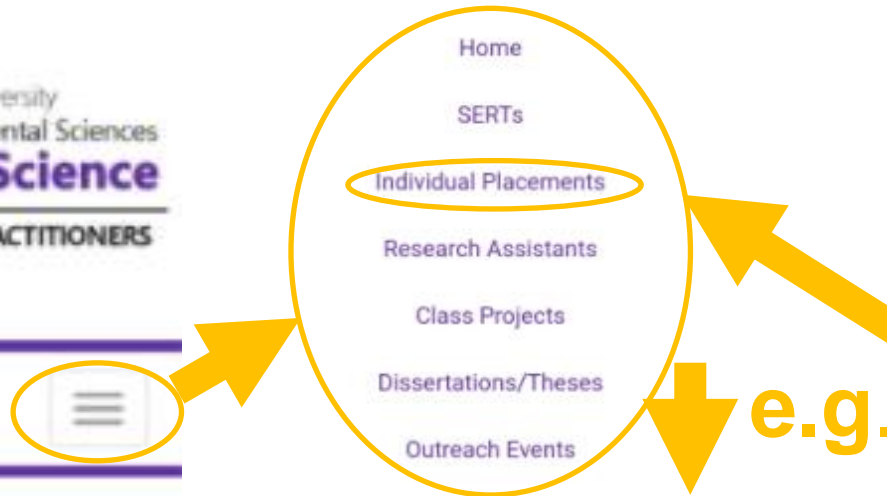
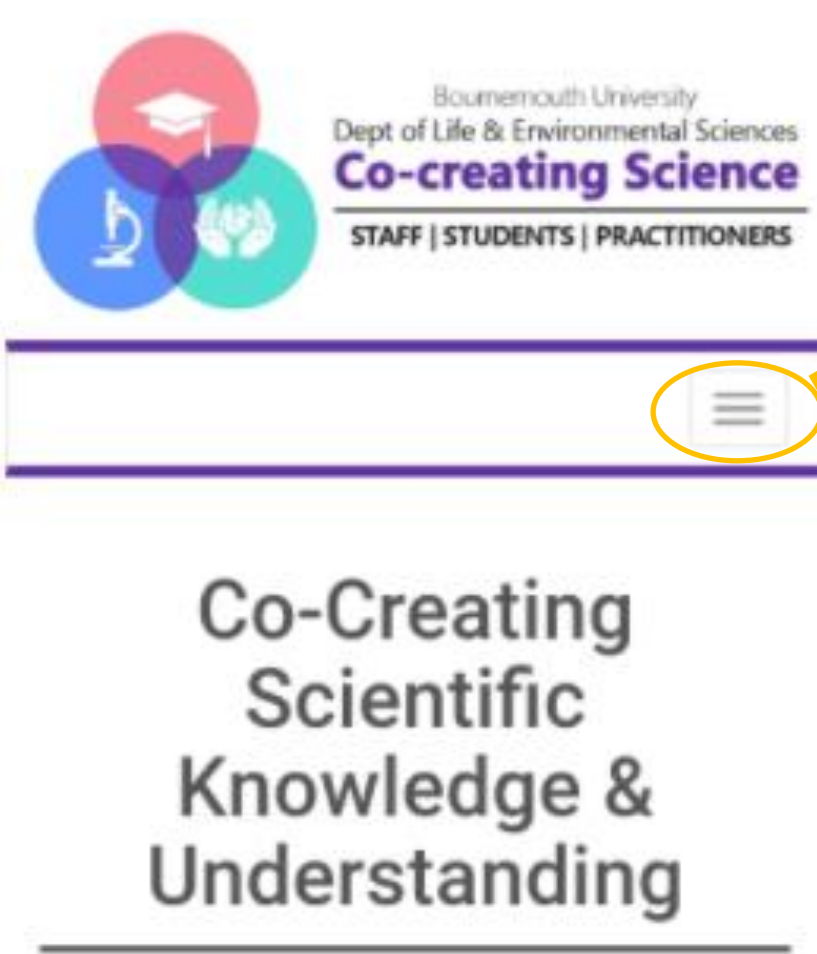
Placements

<http://www.cocreate4science.org/individual-placements/>

Life and Environmental Sciences International Travel Grant



Diverse opportunities for learning & demonstrating skills gained to future employers

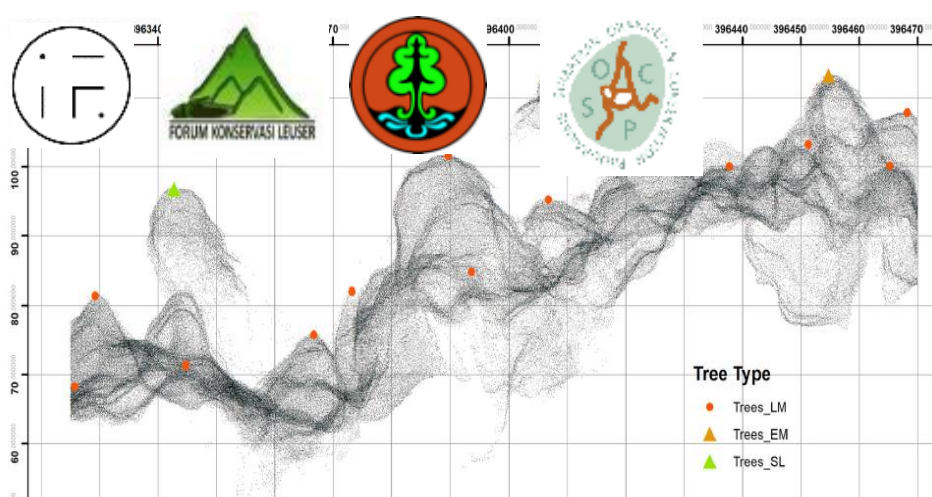


Learning in partnership
with academic staff and
professional
practitioners e.g.

- **Individual Placements**
- **SERTs**
- **Research Assistants**
- **Class Projects**
- **Dissertation**
- **Outreach Events**

On your mobile ➡

<http://www.cocreate4science.org/>



LEAP

Landscape Ecology And Primatology



Prof John Stewart (sportshall today):
Evolutionary Palaeo-ecologist:
human evolution, neanderthals,
terrestrial mammal responses to past
environmental changes. E.g.:

With Dr Peter Allen: they used video game
environments to explore how prey
visibility & hunting strategies might change
as environments have less forest cover.

When does the deer become hard to spot?



Surviving in the virtual Stone Age

We designed a video game environment and asked volunteers to find red deer in it. The world they explored changed to scrub and grassland as the climate cooled and thick forest as it warmed.

The participants could spot red deer at a greater distance in grassland than in woodland, when the density of vegetation was the same. As vegetation grew thicker they struggled to detect prey at greater distances in both environments, but more so in woodland. Prehistoric people would have faced similar struggles as the climate warmed, but there's an interesting pattern that tells us something about human responses to change.



As the climate warmed and wooded environments spread, finding prey became increasingly difficult.

Beyond curriculum ways you can get involved at BU and build your CV

Student societies



**STUDENTS' UNION
AT BOURNEMOUTH
UNIVERSITY**

**WILDLIFE
CONSERVATION
SOCIETY**



/// Description

 **JOIN THIS GROUP**

 Like 16

 Tweet

 Share

Join if you want to meet like minded people, help spread the word about conservation, want to volunteer and go on trips to the lovely outdoors. As well as have fun on many socials!

Contact Us

 [Find us on Facebook](#)

 [Tweet us!](#)

 [Email Us!](#)

Or..
[Find us on youtube!](#)

Wildlife Conservation Society

<https://www.facebook.com/WildlifeConservationSocietyBU/>

Conservation Rangers

<https://en-gb.facebook.com/SUBUConservationRangers/>



Real-world environmental issues addressed with practical experience and scientific expertise



"Working with BUG helped develop my career opportunities. Now I get to help others develop theirs!"

Josie, now a lecturer at Sparsholt College



**Boost
Your
CV**



"I had a fabulous time working with BUG – being able to learn and put new skills into practice has really helped to define my career development"

Ash, BSc Biological Sciences



"A fantastic opportunity to get real-world experience with the BUG consultancy team. A really enjoyable perk to my time at BU!"

Catie, PhD student



BU Global Environmental Solutions (BUG) is the environmental consultancy arm of the Faculty of Science and Technology at Bournemouth University, located within the Department of Life and Environmental Sciences.

Summary Key features of the course

- A strong curriculum that enables you to make it increasingly tailor-made as you refine your career direction
- Large, vibrant community of students and staff enthusiastic about wildlife conservation
- Study within a biodiversity hotspot
- Great national and international fieldwork opportunities
- Strong emphasis on transferable skills and employability
 - 2 work placements (5 weeks each) with optional placement year (30 weeks)
 - **Many** further beyond-curriculum opportunities to build your CV through student societies, SERTs, research assistantships and in-house consultancy

Embedding employer-values

Such as

- Competence in communication,
- Teamwork/collaboration,
- Planning and organising,
- Analytical thinking and problem solving,
- Personal effectiveness,
- Research, managing information,
- Information technology,
- Numerical interpretation

BSc Ecology and Wildlife Conservation

85% of students employed, or in further education 6 months after graduating
(Higher Education Statistics Agency data)

You will be well qualified for:

- Wildlife conservation organisations
- Ecological consultancy
- Research scientific officer
- Wildlife - people sustainability partnerships
- Ecotourism
- Further education (MSc, PhD, PGCE)



Thank you
Any questions?

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