

SENIOR ENGINEER · RESEARCH INFRASTRUCTURE MANAGER · MACROECOLOGIST

☑ erik.kusch@nhm.uio.no | R⁶ Erik Kusch | ② 0000-0002-4984-7646 | 🎢 www.erikkusch.com | 🖫 ErikKusch | У KuschErik

Research Profile

I am a macroecologist and data scientist specialised in streamlining work-flows as well as integrating and analysing big data. I use and develop quantitative tools to study ecosystem resilience and landscape-scale biodiversity to understand ecosystems trajectories through time and space. My current work includes coordination efforts of European biodiversity data research infrastructures, software development for climate data retrieval and aggregation as well as inference, analysis, and simulation of ecological networks.

Education

PhD in Biology; Specialisation on Ecoinformatics and Biodiversity

01/2020 - 04/2023

AARHUS UNIVERSITY (AU) & OXFORD UNIVERSITY (OX)

Dissertation: A Macroecological Perspective to Ecological Networks - Exploring the Impacts of Climate-Driven Biodiversity

Change & Contrasting and Benchmarking Network Inference Approaches

M.Sc. in Biology; Specialisation on Biodiversity, Ecology and Evolution

08/2017 - 08/2019

University of Bergen (UIB) & Nansen Environmental and Remote Sensing Center (Nansen)

Thesis: Inferring Vegetation Memory From Remote Sensing Data And Identifying Causal Links To Plant Function

B.Sc. in Biology 10/2013 - 07/2017

TECHNICAL UNIVERSITY DRESDEN (TUD) & UNIVERSITY OF BERGEN (UIB)

Thesis: Remote Sensing And Predicting Shifts In Biome Distribution And Resilience Using NDVI Data

Specialised Training

Open, Reproducible, and Transparent Science in Ecology

Finse, Norway 14/11/2022 - 18/11/2022

7th Edition Species Distribution Modelling Course

Évora, Portugal

University of Évora, Science Retreats

26/04/2021 - 02/05/2021

An Introduction to Bayesian Statistics

Glasgow, Scotland

University of Glasgow

06/04/2021 - 16/04/2021

Hierarchical Modelling of Species Communities with the R-package Hmsc

Helsinki, Finland

University of Helsinki

02/11/2020 - 06/11/2020

Modelling Challenges for Mountain Ecosystems

Hamburg, Germany

University of Hamburg

University of Bergen

23/02/2020 - 28/02/2020

Experience

Senior Engineer / Research Infrastructure Manager

Oslo Norway

NATURAL HISTORY MUSEUM, UNIVERSITY OF OSLO

03/2023 - PRESENT

Research FellowECOLOGICAL AND ENVIRONMENTAL CHANGE RESEARCH GROUP, UNIVERSITY OF BERGEN

Bergen, Norway 09/2019 - 12/2019

National Park Ranger & Environmental Education Guide

GERMAN CENTRE FOR MARINE BIODIVERSITY RESEARCH, SENCKENBERG GROUP

Saxony, Germany

NATIONAL PARK SAXON-BOHEMIAN SWISS

04/2016 - 06/2016

Research and Teaching Assistant

BEHAVIOURAL ECOLOGY RESEARCH GROUP, UNIVERSITY OF LEIPZIG

08/2017 - 08/2019; 03/2017 - 04/2017

PRIMATE RESEARCH CENTRE, UNIVERSITY OF KYOTO

05/2017 - 07/2017

07/2018

1

Student Assistant

BOTANICAL INSTITUTE, TECHNICAL UNIVERSITY DRESDEN (TUD)

05/2016 - 08/2016; 02/2015 - 08/2015

ZOOLOGICAL COLLECTION, TECHNICAL UNIVERSITY DRESDEN (TUD)

04/2016 - 05/2016; 11/2013 - 08/2015

AUTHOR & LECTURER AU Bayes Study Group AUTHOR & LECTURER EXCURSIONS IND BIOSTATISTICS AUTHOR & LECTURER AI Introduction to Biostatistics Using R AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) AUTHOR AUTHOR AUTHOR Teaching Assistant APPULED STATISTICS 22/03/2021-14/05/202 STATISTICAL AND GEOSPATIAL MODELLING GEOSPATIAL INFORMATION SYSTEMS 27/10/2020-18/12/202 FINSTRUCTOR & Advisor ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), ARRHUS UNIVERSITY OF BERGEN TONGHER OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN TONGHER OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN TONGHER, SPEAKER, LIVING NORWAY COLLOQUIUM 2023 ECOLOGICAL NETWORK SPEAKER, SH CONFERENCE OF NOBDIC SOLETY OIKOS 2022 ECOLOGICAL NETWORK INFERENCE OF NOBDIC SOL	Teaching & Supervision Activity	
AUTHOR & LECTURER Excursions into Biostatistics AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) AUTHOR AUTHOR AUTHOR Feaching Assistant Anhus Universit Feaching Assistant Aurhus Geospatial, Modelling Geospatia		Personal Course Web Page
AUTHOR & LECTURER Excursions into Biostatistics AUTHOR & LECTURER An Introduction to Biostatistics Using R AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) AUTHOR AUTHO	Author & Lecturer	
Excursions into Biostatistics AUTHOR & LECTURER AN Introduction to Biostatistics Using R AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) AUTHOR Course Web Page AUTHOR Teaching Assistant Author Author Author Author Teaching Assistant Author Author Author Author Statistical AND Geospatial Modelling Geospatial Information Systems 27/10/2007 - 18/12/2006 Geospatial Information Systems Econiformatics & Biodiversity Masters Seminars (EBMS), Aarhus University Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen Talks & Workshops Accessing and Referencing GBIF Data for Research Author & Speaker, Luving Norway Colloquium 2023 Climate Data with the KrigR Pipeline Workshop Author & Speaker, Luving Norway Colloquium 2023 Collogical Network Inference - Pipedream or Pipeline Notford, English Novired Speaker, Scalgo Team, University of Oxford Seaker, AK Klima Interinstreffen Seaker, AK Klima Interinstreffen Seaker, AK Klima Interinstreffen Author & Speaker, Scalgo Team, University of Oxford Seaker, AK Klima Interinstreffen Seaker, Scologial-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Scological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Scological-Memory Patterns in Drylands using Remote Sensing	AU Bayes Study Group	Personal Course Web Page
AUTHOR & LECTURER AN Introduction to Biostatistics Using R AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) AUTHOR	Author & Lecturer	
An Introduction to Biostatistics Using R AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) AUTHOR AUTHOR Teaching Assistant APPLIED STATISTICS	Excursions into Biostatistics	😧 Course Web Page
AUTHOR & LECTURER Biological Research in Theory and Praxis (BFTP) Author Author Author Author Author Signat Applied Statistat Applied Statistics Applied Statistics Applied Statistical AND Geospatial Modelling Geospatial Information Systems 27/10/2020 - 18/12/2020 Geospatial Information Systems 27/10/2020 - 18/12/2020 Instructor & Advisor Ecoinformatics & Biodiversity Masters Seminars (EBMS), Aarhus University Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 8/2/201 - 05/05/202 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 8/2/201 - 05/05/202 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 8/2/201 - 05/05/202 Climate Data with the KrigR Pipelline Workshop Author & Speaker, StH Conference of Nordic Society OlikOS 2022 Cological Network Inference - Pipedream or Pipeline Novice Speaker, StALGO Team, University of Oxford Speaker, AK Klima Interimstreffen 25/03/202 KrigR - The R Package Homburg, Germon, Speaker, AK Klima Interimstreffen 25/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops KrigR - Climate Data For Your Spatial Study Invited Speaker, SalGO Team, University of Oxford 18/06/202 Speaker, Naternational Statistical Ecology Conference 2020 Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/202	Author & Lecturer	
Biological Research in Theory and Praxis (BFTP) Author Author Author Shows is the Statistics Teaching Assistant Author Statistics Applied Statistics Applied Statistics Applied Statistics 22/03/2021-14/05/202 Statistical And Geospatial Modelling Geospatial Information Systems 27/10/2020-18/12/202 Instructor & Advisor Ecoinfrormation Systems Ecoinfrormatics & Biodiversity Masters Seminars (EBMS), Aarhus University Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 88/2017-07/201 Talks & Workshops Accessing and Referencing GBIF Data for Research Author & Speaker, Living Norway Colloquium 2023 24/05/202 Climate Data with the KrigR Pipelline Workshop Author & Speaker, 5th Conference of Nordic Society OlkOS 2022 Climate Data with the KrigR Pipelline Workshop Author & Speaker, 5th Conference of Nordic Society OlkOS 2022 Ecological Network Inference - Pipedream or Pipeline Nivited Speaker, SalGo Team, University of Oxford Syeaker, AK Klima Interimstreffen 25/03/202 KrigR - The R Package Hamburg, Germong Speaker, AK Klima Interimstreffen 25/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BiOchange Methods Workshops KrigR - Climate Data For Your Spatial Study Invited Speaker, SalGo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/202	An Introduction to Biostatistics Using R	♀ Course Web Page
Author Aarhus University Feaching Assistant Aarhus University Applied Statistics 22/03/2021 - 14/05/2022 Statistics 22/03/2021 - 14/05/2022 Statistical and Geospatial Modelling 30/05/2020 - 18/12/2020 Geospatial Information Systems 27/10/2020 - 18/12/2020 Instructor & Advisor Econorporatic Seliconversity Masters Seminars (EBMS), Arrhus University 30/02/2021 - 05/05/2022 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence in Biodiversity Education (BioCeed), University Of Bergen 08/2017 - 07/2018 Centre of Excellence of Nordic Society Oliko	Author & Lecturer	
Teaching Assistant Applied Statistics Applied Stati	Biological Research in Theory and Praxis (BFTP)	♀ Course Web Page
APPLIED STATISTICS STATISTICAL AND GEOSPATIAL MODELLING GEOSPATIAL INFORMATION SYSTEMS TOURISM ADDITION OF STATISTICAL AND GEOSPATIAL MODELLING GEOSPATIAL INFORMATION SYSTEMS ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY CENTRE OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN O8/2017-07/2016 TAIKS & WOrkshops Accessing and Referencing GBIF Data for Research AUTHOR & SPEAKER, LIVING NORWAY COLLOQUIUM 2023 Climate Data with the KrigR Pipeline Workshop AUTHOR & SPEAKER, SHI CONFERENCE OF NORDIC SOCIETY OIKOS 2022 Cological Network Inference - Pipedream or Pipeline Invited SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD AUTHOR & SPEAKER, BIOCHANGE METHODS WORKSHOPS KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists AUTHOR & SPEAKER, BIOCHANGE METHODS WORKSHOPS PREAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing INVITED SPEAKER, ECOSYSTEM RESEARCH GROUP, UNIVERSITY OF OXFORD	Author	Aarhus University
STATISTICAL AND GEOSPATIAL MODELLING GEOSPATIAL INFORMATION SYSTEMS 27/10/2020-18/12/2020 Instructor & Advisor ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY COINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY OF BERGEN 08/2017-07/2016 TAIKS & WOrkshops Accessing and Referencing GBIF Data for Research AUTHOR & SPEAKER, LIVING NORWAY COLLOQUIUM 2023 24/05/202 Climate Data with the KrigR Pipeline Workshop AUTHOR & SPEAKER, STH CONFERENCE OF NORDIC SOCIETY OIKOS 2022 Climate Data with the KrigR Pipeline Workshop AUTHOR & SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD INVITED SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD SPEAKER, AK KLIMA INTERIMSTREFFEN 225/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & SPEAKER, BIOCHANGE METHODS WORKSHOPS 12/11/202 KrigR - Climate Data For Your Spatial Study Invited SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD 18/06/202 SPEAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited SPEAKER, ECOSYSTEM RESEARCH GROUP, UNIVERSITY OF OXFORD 15/10/202	Teaching Assistant	Aarhus University
GEOSPATIAL INFORMATION SYSTEMS Instructor & Advisor ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY O3/02/2021 - 05/05/2022 CENTRE OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN O8/2017 - 07/2018 Talks & Workshops Accessing and Referencing GBIF Data for Research AUTHOR & SPEAKER, LIVING NORWAY COLLOQUIUM 2023 Climate Data with the KrigR Pipeline Workshop Author & SPEAKER, STH CONFERENCE OF NORDIC SOCIETY OIKOS 2022 Climate Data with the KrigR Pipeline Workshop Author & SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD INVITED SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD SPEAKER, AK KLIMA INTERIMSTREFFEN C25/03/202 KrigR - The R Package Hamburg, Germany SPEAKER, AK KLIMA INTERIMSTREFFEN 225/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & SPEAKER, BIOCHANGE METHODS WORKSHOPS 12/11/202 KrigR - Climate Data For Your Spatial Study Invited SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD 18/06/202 SPEAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited SPEAKER, ECOSYSTEM RESEARCH GROUP, UNIVERSITY OF OXFORD	Applied Statistics	22/03/2021 - 14/05/2021
Instructor & Advisor ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY CENTRE OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN 708/2017-07/2018 Talks & Workshops Accessing and Referencing GBIF Data for Research Author & Speaker, Living Norway Colloquium 2023 24/05/2022 Climate Data with the KrigR Pipeline Workshop Author & Speaker, 5th Conference of Nordic Society OlkoS 2022 Cloudial Network Inference - Pipedream or Pipeline Invited Speaker, SalGo Team, University of Oxford Invited Speaker, AK Klima Interinstreffen Speaker, AK Klima Interinstreffen 25/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, SalGo Team, University of Oxford University of Oxford Author & Speaker, SalGo Team, University of Oxford Speaker, SalGo Team, University of Oxford 12/11/202 KrigR - Climate Data For Your Spatial Study Invited Speaker, SalGo Team, University of Oxford Speaker, SalGo Team, University of Oxford 18/06/202 Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford	STATISTICAL AND GEOSPATIAL MODELLING	03/09/2020 - 18/12/2020
ECOINFORMATICS & BIODIVERSITY MASTERS SEMINARS (EBMS), AARHUS UNIVERSITY CENTRE OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN 708/2017-07/2019 Talks & Workshops Accessing and Referencing GBIF Data for Research Author & Speaker, Living Norway Colloquium 2023 24/05/2022 Climate Data with the KrigR Pipeline Workshop Author & Speaker, STH Conference of Norbic Society OIKOS 2022 Cological Network Inference - Pipedream or Pipeline Invited Speaker, Salgo Team, University of Oxford Speaker, AK Klima Interimstreffen Cyford, England Speaker, AK Klima Interimstreffen Cyford, England Author & Speaker, BIOCHANGE Methods Workshops Author & Speaker, BIOCHANGE Methods Workshops Author & Speaker, Salgo Team, University of Oxford KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford 18/06/2023 Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2019	GEOSPATIAL INFORMATION SYSTEMS	27/10/2020 - 18/12/2020
Talks & Workshops Accessing and Referencing GBIF Data for Research Author & Speaker, Living Norway Colloquium 2023 Climate Data with the KrigR Pipeline Workshop Author & Speaker, 5th Conference of Nordic Society OlkOS 2022 Cological Network Inference - Pipedream or Pipeline Invited Speaker, Salgo Team, University of Oxford Speaker, AK Klima Interimstreffen Speaker, AK Klima Interimstreffen Speaker, AK Klima Interimstreffen Speaker, BIOCHANGE Methods Workshops Author & Speaker, BIOCHANGE Methods Workshops Author & Speaker, Salgo Team, University of Oxford Speaker, AK Klima Interimstreffen Speaker, AK Speaker, Blochange Methods Workshops Till 11/202 Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford	Instructor & Advisor	
Talks & Workshops Accessing and Referencing GBIF Data for Research Author & Speaker, Living Norway Colloquium 2023 Author & Speaker, Living Norway Colloquium 2023 Climate Data with the KrigR Pipeline Workshop Author & Speaker, 5th Conference of Nordic Society OIKOS 2022 Cological Network Inference - Pipedream or Pipeline Invited Speaker, SalGo Team, University of Oxford KrigR - The R Package Speaker, AK Klima Interimstreffen Cyford, England Speaker, AK Klima Interimstreffen Cyford, England Author & Speaker, BIOCHANGE Methods Workshops KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops KrigR - Climate Data For Your Spatial Study Invited Speaker, SalGo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford	Ecoinformatics & Biodiversity Masters Seminars (EBMS), Aarhus University	03/02/2021 - 05/05/2021
Accessing and Referencing GBIF Data for Research AUTHOR & SPEAKER, LIVING NORWAY COLLOQUIUM 2023 Climate Data with the KrigR Pipeline Workshop AUTHOR & SPEAKER, STH CONFERENCE OF NORDIC SOCIETY OIKOS 2022 Cological Network Inference - Pipedream or Pipeline Invited Speaker, Salgo Team, University of Oxford Invited Speaker, Salgo Team, University of Oxford Speaker, AK KLIMA Interimstreeffen Speaker, AK KLIMA Interimstreeffen Author & Speaker, BIOCHANGE Methods Workshops KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops Livited Speaker, Salgo Team, University of Oxford Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2015	CENTRE OF EXCELLENCE IN BIODIVERSITY EDUCATION (BIOCEED), UNIVERSITY OF BERGEN	08/2017 - 07/2018
AUTHOR & SPEAKER, LIVING NORWAY COLLOQUIUM 2023 24/05/2022 Climate Data with the KrigR Pipeline Workshop Author & Speaker, 5th Conference of Nordic Society OlKOS 2022 07/07/2022 Ecological Network Inference - Pipedream or Pipeline Invited Speaker, Salgo Team, University of Oxford 22/05/2022 KrigR - The R Package Hamburg, Germany Speaker, AK Klima Interimstreffen 25/03/2022 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Aarhus, Denmany Author & Speaker, BIOCHANGE Methods Workshops 12/11/2026 KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford 18/06/2026 Speaker, International Statistical Ecology Conference 2020 25/06/2026 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2015	Talks & Workshops	
Climate Data with the KrigR Pipeline Workshop Author & Speaker, 5th Conference of Nordic Society Olkos 2022 Ecological Network Inference - Pipedream or Pipeline Invited Speaker, Salgo Team, University of Oxford ExigR - The R Package Speaker, AK Klima Interimstreffen Speaker, AK Klima Interimstreffen KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2015	Accessing and Referencing GBIF Data for Research	Trondheim, Norway
AUTHOR & SPEAKER, 5TH CONFERENCE OF NORDIC SOCIETY OIKOS 2022 Ecological Network Inference - Pipedream or Pipeline Oxford, England Invited Speaker, Salgo Team, University of Oxford KrigR - The R Package Hamburg, Germany Speaker, AK Klima Interimstreeffen 25/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops Li/11/202 KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2015	Author & Speaker, Living Norway Colloquium 2023	24/05/2023
Ecological Network Inference - Pipedream or Pipeline Oxford, England 1 NVITED SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD KrigR - The R Package SPEAKER, AK KLIMA INTERIMSTREFFEN SPEAKER, AK KLIMA INTERIMSTREFFEN KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & SPEAKER, BIOCHANGE METHODS WORKSHOPS KrigR - Climate Data For Your Spatial Study INVITED SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD SPEAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing INVITED SPEAKER, ECOSYSTEM RESEARCH GROUP, UNIVERSITY OF OXFORD 15/10/2015	Climate Data with the KrigR Pipeline Workshop	Aarhus, Denmark
Invited Speaker, Salgo Team, University of Oxford KrigR - The R Package Speaker, AK Klima Interimstreffen 25/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops Author & Speaker, BIOCHANGE Methods Workshops KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2015	AUTHOR & SPEAKER, 5TH CONFERENCE OF NORDIC SOCIETY OIKOS 2022	07/07/2022
KrigR - The R Package Speaker, AK KLIMA INTERIMSTREFFEN 25/03/202 KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops 12/11/202 KrigR - Climate Data For Your Spatial Study Invited Speaker, SalGo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2015	Ecological Network Inference - Pipedream or Pipeline	Oxford, England
SPEAKER, AK KLIMA INTERIMSTREFFEN 25/03/202. KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops 12/11/202. KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2018	Invited Speaker, SalGo Team, University of Oxford	22/05/2022
KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists Author & Speaker, BIOCHANGE Methods Workshops 12/11/2020 KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2019	KrigR - The R Package	Hamburg, Germany
AUTHOR & SPEAKER, BIOCHANGE METHODS WORKSHOPS KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 12/11/2020	Speaker, AK Klima Interimstreffen	25/03/2021
AUTHOR & SPEAKER, BIOCHANGE METHODS WORKSHOPS KrigR - Climate Data For Your Spatial Study Invited Speaker, Salgo Team, University of Oxford Speaker, International Statistical Ecology Conference 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 12/11/2020	KrigR - Downscaling State-of-the-Art Climate Data for Macroecologists	Aarhus, Denmark
INVITED SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD SPEAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing INVITED SPEAKER, ECOSYSTEM RESEARCH GROUP, UNIVERSITY OF OXFORD 15/10/2015		12/11/2020
INVITED SPEAKER, SALGO TEAM, UNIVERSITY OF OXFORD SPEAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020 Identifying Ecological-Memory Patterns in Drylands using Remote Sensing INVITED SPEAKER, ECOSYSTEM RESEARCH GROUP, UNIVERSITY OF OXFORD 15/10/2015	KrigR - Climate Data For Your Spatial Study	
Identifying Ecological-Memory Patterns in Drylands using Remote Sensing Invited Speaker, Ecosystem Research Group, University of Oxford 15/10/2019		18/06/2020
Invited speaker, Ecosystem Research Group, University of Oxford 15/10/2019	SPEAKER, INTERNATIONAL STATISTICAL ECOLOGY CONFERENCE 2020	25/06/2020
Invited speaker, Ecosystem Research Group, University of Oxford 15/10/2019	Identifying Ecological-Memory Patterns in Drylands using Remote Sensing	
Speaker, International Society for Ecological Modelling Conference 2019 04/10/2019		15/10/2019
	SPEAKER, INTERNATIONAL SOCIETY FOR ECOLOGICAL MODELLING CONFERENCE 2019	04/10/2019

INVITED SPEAKER, ECOINFORMATICS AND BIODIVERSITY RESEARCH GROUP, UNIVERSITY OF AARHUS

Inferring Vegetation Memory from Remote Sensing Data

Invited speaker, Spatial Ecology Group, University of Glasgow

Spatial Patterns of Plant Performance

INVITED SPEAKER, BIO DAY, UNIVERSITY OF BERGEN

06/09/2019

15/03/2019

09/01/2019

Bergen, Norway

Glasgow, Scotland

Extracurricular Activity

Group Member

Statistics Journal Club, University of Glasgow	03/2021 - 03/2023
Spatial Shared-Interest Group, University of Glasgow	03/2021 - 03/2023
Bayes Study Group, University of Bergen	09/2018 - 12/2019
EECRG Reading Group, University of Bergen	10/2017 - 12/2019

Leader & Dungeon Master

University of Oslo Natural History Museum Dungeons & Dragons Group Aarhus University Section 05/2023 - PRESENT FOR Ecoinformatics Dungeons & Dragons Group 03/2022 - 01/2023

Elected Member: Students Council of Biology Studies at the TUD

TECHNICAL UNIVERSITY OF DRESDEN 10/2013 - 10/2015

Dresden, Germany

Writing

NetworkExtinction - R Package to Simulate Extinction Propagation & Rewiring Potential in Ecological Networks

M.Isidora Ávila-Thieme*, **Erik Kusch***, Derek Corcoran*, ..., Navarrete, Pablo A. Marquet (* ... joint first-authorship)

Methods in Ecology and Evolution - 2023

MOSAIC: A Unified Trait Database to Complement Structured Population Models

CONNOR BERNARD, GABRIEL SILVA SANTOS, [...], ERIK KUSCH, [...], ROBERTO SALGUERO-GÓMEZ

Mature Scientific Data - 2023

A novel trophic cascade between cougars and feral donkeys shapes desert wetlands

ERICK LUNDGREN, DANIEL RAMP, OWEN MIDDLETON, EAMONN WOOSTER, ERIK KUSCH, [...], ARIAN WALLACH

Vegetation memory effects and their association with vegetation resilience in global drylands

ERIK KUSCH, RICHARD DAVY, ALISTAIR SEDDON

KrigR - A Tool for Downloading and Statistically Downscaling Climate Reanalysis Data

ERIK KUSCH. RICHARD DAVY

6 Environmental Research Letters - 2022

Reconciling high resolution climate datasets using KrigR

RICHARD DAVY, ERIK KUSCH

6 Environmental Research Letters - 2021

Honours & Grants & Awards

SCHOLARSHIPS & GRANTS

10/2020	Scholarship for Academically Excellent Students , Frands Christian Frantsen's Scholarship	Aarhus, Denmark
03/2019	Funding for Particularly Talented Students, Lina Asbjørnsens Stipendiefond	Bergen, Norway
02/2019	Fast-Track-Initiative Funding, FTI, Bjerknessenteret	Bergen, Norway
03/2018	Project Grant , L. Meltzers Høyskolefond	Bergen, Norway
2018/19	Scholarship , German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)	Bonn, Germany

AWARDS

10/2019	Best Poster: Student and Early Career Researcher , International Society for Ecological Modelling	Salzburg, Austria
10/2019	Modeller's Choice Poster Award, International Society for Ecological Modelling	Salzburg, Austria