n R. **Ketwaroo** Room 243, Statistical Ecology @ Kent, School of Mathematics, Statistics and Actuarial Science University of Kent, Sibson Building, Canterbury, CT2 7FS, U.K. □ (+44) 7400260617 | ■ fk231@kent.ac.uk | ★ blogs.kent.ac.uk/fketwaroo/

Research Interests

Ecological statistics, Spatial and spatio-temporal modeling, Spatial Capture-Recapture models, N-mixture models, Objective priors, Bayesian Modeling and Variable selection, Theory and Applications, Computational Methods.

Education

PhD in Statistics	United Kingdom
University of Kent	2019 – Present
Supervisor: Dr. Eleni Matechou	
International MSc Statistics	United Kingdom
University of Kent	2017 –2019
Distinction	
B.S. Mathematics	Guyana
University of Guyana	2011 -2015
• Distinction (3.6/4.0 GPA).	

Experience

University of Kent

STATISTICS CLINIC LEAD

• Employed by the Student Learning Advisory Service to assist students from across the university with their understanding of statistics

University of Kent

GRADUATE TEACHING ASSISTANT

- Marked assessments and provided assistance in computer classes and tutorials in modules such as Mathematical Statistics, Statistical Learning, Advanced Regression modelling, Data Science with R.
- · Created online quizzes for the module Applied Statistical Modelling 1.

University of Kent

SENIOR AMBASSADOR

- Math Tutor for GCSE students at a mixed secondary school in Ramsgate.
- Ambassador team member for
 - guided tours on University of Kent open days,
 - Outreach event: Statistics Gone Wild,
 - Royal Institution Masterclasses.

University of Kent

RESEARCH ASSISTANT

• Developed and implemented Rshiny app to model Caste-Specific Demography and Phenology in Bumblebees using citizen science data.

University of Guyana

PART-TIME TUTOR (ON-LINE PROGRAMME)

· Promoted discussions, monitored students' progress and assessed students' work for modules: Introducing Statistics and Essential Mathematics.

University of Guyana

LECTURER IN MATHEMATICS

• Taught and evaluated modules such as Calculus, Groups Rings and Field, Linear Algebra and Applied Mathematics.

United Kingdom

Nov. 2019 - Aug. 2020

Mar. 2017 - July 2017

Guyana

Guyana 2015 - 2017

FABIAN R. KETWAROO · RÉSUMÉ

United Kingdom 2019 - Present

United Kingdom

2022 - Present

United Kingdom

2018 - Present

Academic Qualifications

Associate Fellow

Advanced Higher Education

Graduate Statistician

Royal Statistical Society

Projects_____

The following projects are being drafted to be submitted by March 2023:

Spatial Capture Recapture Models to account for Disease Uncertainty Spatio-temporal modelling of European badgers to better understand how disease (bovine tuberculosis (TB)) dynamics are linked to population dynamics within a spatial context. TO BE SUBMITTED TO ENVIRONMETRICS	University of Kent 2019-Present
Specifying, Assessing and Selecting N-mixture Models in a Bayesian framework <i>Implementing objective priors for N-mixture models and investigating model selection and identifiability of</i> <i>N-mixture model within a Bayesian framework.</i> TO BE SUBMITTED TO METHODS IN ECOLOGY AND EVOLUTION.	University of Kent 2019-Present
A New Modeling Framework for Roost Count Data Novel modeling framework that can be used to estimate population size at a site, while accounting for observation error and temporary emigration parametrically and non-parametrically, including efficient variable selection algorithm for identifying important predictors of observation error. TO BE SUBMITTED TO ANNALS OF APPLIED STATISTICS	University of Kent 2021-Present
Bayesian Caste-Specific Demography and Phenology in Bumblebees: Modeling BeeWalk Data. New Bayesian model for Bumblebee citizen science data in the U.K. This model produces estimates of key demographic parameters such as caste-specific phenology and average nest productivity, in the wild. I implemented the model into an R shiny app, allowing users without prior knowledge of R to fit the model to their data. TO BE SUBMITTED TO THE JOURNAL OF THE ROYAL STATISTICAL SOCIETY: SERIES C (APPLIED STATISTICS) OR JOURNAL OF AGRICULTURAL, BIOLOGICAL AND ENVIRONMENTAL STATISTICS	University of Kent Nov. 2020- Aug. 2021

Awards & Scholarships_____

2020	Research grant, University of Kent	United Kingdom
2019	Vice Chancellor Scholarship, University of Kent	United Kingdom
2019	School prize in MSc Statistics for highest examination results, including best MSc project , University of Kent	United Kingdom
2019	RSS prize for best MSc Statistics student, University of Kent	United Kingdom
2012	3rd Place, P.A.N.A.M. Powerlifting Championship	Orlando, U.S.A

United Kingdom 2021

United Kingdom 2019-2021

Professional Development _____

Asymptotic Methods and Statistical Applications United	d Kingdom
London Taught Course Centre	2020
Advanced Computational Methods in Statistics United	d Kingdom
London Taught Course Centre	2019
Maximum Entropy Models for Complex Networks United	d Kingdom
London Taught Course Centre	2019

Conferences and Workshops_____

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Presentations_____

International Statistical Ecology Conference	Online
Poster Presentation: A New Modelling Framework for Roost Count Data.	July. 2022
National Centre for Statistical Ecology	Online
TALK: Spatially Explicit Capture-Recapture Disease Uncertainty Models	June. 2021
PGR Statistics Seminar, University of Kent	Online
TALK: How to Walk the BeeWalk: Modelling Bumblebee Citizen Science Data	Mar. 2021
International Statistical Ecology Conference	Online
TALK: Objective Priors from Scoring rules for N-mixture models	June. 2020

Computing skills _____

ProgrammingR, Rshiny, NIMBLE (advanced), C/C++ (intermediate), Phyton, JavaScript, Google Earth Engine (beginner)Typesetting systemLaTex (advanced)