

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Wildlife Camera Trapping: Study Design, Data Management, and Analysis

March 18, March 25, & April 01, 2022

Instructors: James Johnson, Richard Chandler, and Michel Kohl



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**GEORGIA**

Warnell School of Forestry  
& Natural Resources

### Purpose

This virtual course is offered as a **3-part series** and participants may choose to register for individual days or for the entire 3-day course. **Day 1 (basic)** will consist of an overview of camera trapping with information pertaining to camera trapping objectives, camera deployment and maintenance, and data entry and management with Camelot. **Day 2 (intermediate)** will introduce data exploration with R, statistical analysis using GLMMs, and occupancy models. **Day 3 (advanced)** will cover advanced statistical analysis using spatial capture-recapture models for marked and partially-marked populations. For day 2, participants should have prior experience with linear models and generalized linear models. For day 3, participants should have experience with occupancy models and mark-recapture analysis. Days 2 and 3 also assume participants feel comfortable working in R.

Please note: An option is available within the online registration link to request a passcode protected recording that can be accessed for 1 week following each day-long session for those that cannot attend the live event.

### Who Will Benefit?

Students and research professionals interested in wildlife camera trapping study design, data management, and data analysis.

### Instructors

**Dr. James Johnson** is an Outreach Program Assistant with the Warnell School of Forestry and Natural Resources. His research while at the Warnell School focused on developing a survey method for estimating white-tailed deer population parameters using camera traps.

**Dr. Richard Chandler** is an Associate Professor of Wildlife Ecology and Management. His research focuses on wildlife population dynamics and wildlife conservation. Dr. Chandler is a co-author of the book *Spatial Capture-Recapture* and a developer of several R packages, including 'unmarked'.

**Dr. Michel Kohl** is a Wildlife Management and Extension faculty in the Warnell School of Forestry and Natural Resources. His work primarily focuses on the application of GPS technology to address management and conservation questions that pertain to wildlife distributions.

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Day	Session
Friday March 18	<b>AM</b> *- Workshop Introduction. Overview of camera trapping, study objectives, and camera deployment.
	<b>PM</b> - Data entry and storage options. Overview of Camelot open source software: Image tagging and exporting data.
Friday March 25	<b>AM</b> - Formatting raw data and coordinate files, summary statistics, and camera trap data visualizations.
	<b>PM</b> - Generalized linear mixed-effects models (GLMMs) and Occupancy models. Data formatting, model fitting, prediction, and visualization.
Friday April 01	<b>AM</b> - Spatial capture-recapture for marked populations.
	<b>PM</b> - Spatial capture-recapture for marked or partially-marked populations.

\*We will hold all **AM sessions** from 9:00am to 12:00pm **EST**  
and all **PM sessions** from 1:00pm to 5:00pm **EST**

**Register online at**  
<http://conted.warnell.uga.edu>

### Registration Fee

The fee for this 3-day course is \$300.00 (normal rate), \$175.00 (student rate), with the option of registering for individual days at \$125.00 per session (normal rate) or \$75.00 per session (student rate).

### Cancellations

In the event that you need to cancel, in order to receive a refund please contact Ingvar Elle (706-583-0566 or [ingvar@uga.edu](mailto:ingvar@uga.edu)) by March 04, 2022.

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Register online at  
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### Registration by Regular Mail

Name - please print

Preferred name for badge

☐ Business mailing address or ☐ Home address (please check one)

City State Zip County, if Georgia

Home phone Work phone Fax

Email address ☐ Please send me e-mails about other Warnell Continuing Education programs.

Position Organization/employer

*By registering for this event I agree to comply with all event and lodging cancellation policies.*

### **Wildlife Camera Trapping**

**March 18, March 25, & April 01, 2022**

Normal Rate..... \$300.00

Student Rate..... \$175.00

### **Individual Days**

Normal Rate..... \$125.00

Student Rate..... \$75.00

Enclosed is a check # \_\_\_\_

(payable to Warnell School of Forestry and Natural Resources)

**Your registration will not be processed until payment is received.**

**Mail payment to:** Attn:

Anuj Sinha  
Warnell School of Forestry & Natural Resources  
University of Georgia  
180 East Green Street  
Athens, Georgia 30602