BIOLOGIE
DES ORGANISMES
ET DES POPULATIONS

Supervisor :

Surname :HEALY Name : SUSAN Position: READER Phone #:01334462065

Laboratory /Company : SCHOOL OF BIOLOGY, UNIVERSITY OF ST ANDREWS

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Topic of the internship:

Cognition of nest building

Key-words :

Animal behaviour, animal cognition, nest building, birds

Summary (no more than 150 words) :

Ongoing research in the Healy laboratory is focussed on addressing questions in animal cognition spanning from spatial cognition to vocal communication. The largest ongoing project concerns the role that cognition plays in nest building and the neural underpinnings of material manipulation. During Jordan's internship she will assist in laboratory experiments and data collection, specifically: general daily care of birds including training in husbandry, handling and ethics running behavioural experiments and recording observations (including learning to use the relevant recording technology) scoring behaviour from videos (using appropriate software) data entry and preliminary analyses. Jordane will also be involved in discussions of experimental design and presentation of the data that she collects (one recent intern Marion Bertin, University of Caen, co-authored two papers published in 2014). During her internship Jordane will be involved in the weekly lab group meetings where she will also be encouraged to engage in discussion.

Two bibliographic references:

Bailey, I.E., Morgan, K.V., Bertin, M., Meddle, S.L. & **Healy, S.D.** 2014. Physical cognition: birds learn the structural efficacy of nest material. *Proceedings of the Royal Society B,* 1784, 20133225.

Hall, Z.J., Bertin, M., Bailey, I.E., Meddle, S.L. & **Healy, S.D.** 2014. Neural correlates of nesting behavior in zebra finches (*Taeniopygia guttata*). *Behavioural Brain Research,* 264, 26-33.

Likely to be operated technical methods:

Data collection via cameras and computer; data analysis using computer software; data entry; some basic data analysis; literature searching using Web of Science and other similar

Specific skills requiered:

Enthusiasm, patience