



# GEM3

Genes by Environment  
Modeling · Mechanisms · Mapping

**Module Name:** Bear Foraging Behavior

**Institution:** Boise State University

**Principle Investigator(s):** Amy Ulappa, [amyulappa@boisestate.edu](mailto:amyulappa@boisestate.edu)

**Summary:**

The aim of this module is to catalog and observe behavioral foraging patterns in bears using a key-logging program (BORIS). This project and ethogram are based on a [2009 article](#) found in *The Journal of Mammalogy*. *This module has been used in BSU's Mammalogy (ZOO 421) course.*

**Contents:**

- Video: [BORIS walkthrough](#)
- Image: Bear6\_example\_durgraph.png
- Image: Bear6\_example\_ocplot.png
- Image: Bear6\_example\_plot.png
- Spreadsheet: Bear6\_example\_results
- BORIS project file: Bears Salmon Forage.boris
- Lab 1: BORIS Mammalogy Lab
- Lab 2: BORIS Carnivore Forage module
- Presentation: ForageLabIntro

**Notes:**

- Video currently requires a Boise State login. If you use this module, arrangements will be made for you to access them.
- Please contact the project PI or the GEM3 PUI Liaison for assistance in deploying this module in your course.

**Questions?** Contact the PI or the GEM3 PUI Liaison, Stephanie Sevigny, [stephanieseigny@boisestate.edu](mailto:stephanieseigny@boisestate.edu)

*Last Updated: 09/16/2021*