

## SUBMISSION FORM

### University System/Employee Intellectual Property Joint Participation MUSP 407

This form is to be submitted with any Board of Regents item whereby a campus seeks the approval of an agreement with or arrangement regarding an employee pursuant to 20-25-109 MCA and Regents Policy 407.

When the submission concerns matters of trade secrets or confidential business information, or any other matter entitled to privacy under state or federal law (e.g., the federal statute known as Bayh/Dole) the submitting campus may request consideration of the submission, in whole or in part, in executive session.

The submitting campus should also provide the Commissioner a copy of the contract(s) that form the basis for the cooperative arrangement for which approval is sought. Submission of the contract does not indicate a conclusion that all or part of the contract is a public document and the question of whether it is in whole or in part protected from public disclosure will be evaluated on a case by case basis.

1. Summarize the nature of the intellectual property that was developed by the employee seeking approval. Indicate the sources of funding for the research that resulted in this invention.

PopR software utilizes state of the art models to describe demographic processes (e.g. survival, reproduction) and project populations through time. We fit many of the models in a Bayesian state-space context to ease implementation of random effects, estimate missing data and incorporate prior knowledge. At the time of this writing we have developed models to estimate abundance from sightability data, known fate survival models and pregnancy estimation. The software then combines demographic rate estimates within an Integrated Population Model (IPM) to project populations through time. IPMs synthesize multiple sources of data while accounting for uncertainty and the complex biological processes that alter population trajectories. The software also places a simple user interface over the top of thousands of lines code to simplify interaction with data and models. The user interface is web based to ease version control, eliminate hardware requirements, and ensure availability of appropriate software dependencies. As designed, the software is capable of remotely connecting to a database and so automates data retrieval. In sum, these features allow the uninitiated individual to retrieve data, fit a series of models under different harvest strategies and generate reports using the results

2. a. Name(s) of the university employee(s) involved.

Paul M. Lukacs  
James J. Nowak

- b. Name(s) of business entity(ies) involved.

Speedgoat Wildlife Solutions, LLC

3. The university and employee(s) are seeking approval for (check as many as appropriate):

- X  a. The employee to be awarded equity interest in the business entity.  
 b. The employee to serve as a member of the board of directors or other governing board of the business entity.  
X  c. The employee to accept employment from the business entity.  
 d. Other. Please explain.

4. a. Summarize the nature of the relationship between the university and the business entity (e.g., the entity is licensing the intellectual property from the university, the entity is co-owning the intellectual property with the university).

Speedgoat Wildlife Solutions, LLC is a data analytics service company for wildlife management. Speedgoat Wildlife Solutions, LLC offers consulting, expert reviews and expert advice for wildlife data analytics problems. Speedgoat Wildlife Solutions, LLC provides software as a service rather than as a paid product.

- b. The proposed duration of the agreement or arrangement.

1/6/2016 – 12/31/2025

- c. The conditions under which the agreement may be terminated or dissolved.

5. Explain specifically how the University System or the State of Montana will likely benefit from the agreement or arrangement.

a. Speedgoat Wildlife Solutions, LLC will bring increased employment to Montana.

b. Speedgoat Wildlife Solutions, LLC will enhance the image and notoriety of UM through applications of research done at UM.

c. Speedgoat Wildlife Solutions, LLC will enhance the research mission of UM by collaborating on new research projects.

d.

6. Summarize the financial terms of the agreement or arrangement. Include:

a. The value, nature and source of the University's contribution.

UM will provide no contribution

b. The value and nature of the employee's contribution.

Dr. Lukacs and Dr. Nowak will be paid by Speedgoat Wildlife Solutions, LLC for work done on behalf of the company.

c. The anticipated revenue to be generated by the project and the time line for generating such revenue.

Unknown

d. The manner in which revenue and expenses will be shared by the parties.

Speedgoat Wildlife Solutions, LLC will pay all of the expenses related to the business.

e. The nature of each party's equity interest in the project. If none, so indicate.

Dr. Lukacs 50% ownership of Speedgoat Wildlife Solutions, LLC

Dr. Nowak 50% ownership of Speedgoat Wildlife Solutions, LLC