

Welcoming remarks



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Outline for today

- Series of 4 presentations
 - ▣ Lecture (30 min)
 - ▣ Hands-on exercises (60 min)
- R tutorial



Presentations

- Parameter estimation
- Cross validation and bootstrapping
- Automated model selection
- Molly and other dynamic models

After today

- All lectures and other materials posted online
 - hackmannlab.org
 - animalnutrition.org

Nutrition Models Workshop (archived material)

You can access materials from past workshops below:

2018 NANP Nutrition Models Workshop

Lectures

- [Lecture #1](#)
- [Lecture #2](#)
- [Lecture #3](#)
- [Reception talk](#)

Our workshops

□ Goal

- ▣ Train the next generation of mathematical modelers

Our workshops

- Offered at ADSA
 - ▣ Advanced workshop (this year)
 - ▣ Basic workshop (next year)



Our workshops/symposia

□ Offered at 4 different meetings

ADSA



ASAS-CSAS



PSA



ESS



Who we are

- National Animal Nutrition Program (NANP)
 - ▣ Identifies and solves high-priority animal nutrition issues
 - ▣ Made up of 35 university faculty, industry personnel, and advisors
 - ▣ Funded by USDA-NIFA



Find out more

animalnutrition.org

The National Animal Nutrition Program

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Modeling

Who Are We?

The National Animal Nutrition Program (NANP) serves as a forum to identify high-priority animal nutrition issues and provides an integrated and systemic approach to sharing, collecting, assembling, synthesizing, and disseminating science-based information, educational tools, and enabling technologies on animal nutrition that facilitate high-priority research among agricultural species.

[Learn More](#)

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USDA United States Department of Agriculture

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Workshop

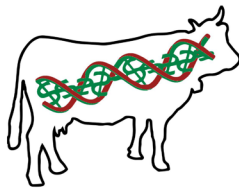


- **Proposal 2018-07004**



National Animal Nutrition Program
Leveraging Resources, Linking Researchers

McNamara Research in Agriculture Firm, LLC.



Hackmann lab



- **Competitive Grant 2018-67015-27495**
- **Competitive Grant 2017-05861**
- **Hatch CA-D-ASC-2542-RR**
- **Hatch CA-D-ASC-2543-RR**

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