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

National Animal Nutrition Program
Leveraging Resources, Linking Researchers

Find out more

animalnutrition.org
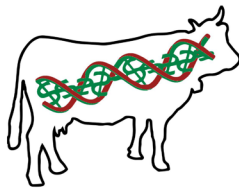
Acknowledgements

Workshop

- **Proposal 2018-07004**

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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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