## Masoomeh Taghipoor (PhD)

Deputy director of MoSAR (Systemic Modelling Applied to Ruminants)
Paris-Saclay University-INRAE-AgroParisTech

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## Education

PhD in applied mathematics, Francois Rabelais university, Tours, France, 2012
PhD dissertion : Modeling digestion and absorption in small intestine
MCS in mathematics and computer science, Nantes university, Nantes, France, 2008
Bachlor of mathematics, IUST, Tehran, Iran, 2006

## Research experiences

Researcher at MoSAR, INRAE, Paris- Saclay university, Palaiseau, France, 2018-present
Researcher at PEGASE, INRAE, Saint Gilles, France, 2012-2018

- co-leader of national PEPR project WAIT4: "Characterization of animal activities and social interactions generating positive or negative emotions, by artificial intelligence", 2022-2027
- participation in projects for the analysis of high frequency data, in relation with the response of animals to environmental perturbations.
- Coordinator of RUMBA network (digital technologies for animal health and welfare), INRAE, France, 2020-2022
- supervision of MCS and PhD projects in relation with data analysis and mathematical model development

## Teaching experiences

Lecturer at international MCS program PRIAM of Paris-Saclay university and AgroParisTech, 2018-present
Lecturer at doctoral school module "modelling cookbook ", 2021
Lecturer at online modeling module MASTIC ( Modélisation des Agroécosystèmes SimulaTIon-Code
Organizer and lecturer of international workshop " Robustness, from a wooly concept to operational measures ", 2019

## Committee membership

Member the strategic committee of Digit-Bio program of INRAE, France, since 2020
Member of Digital twin reflection group, INRAE, France, since 2023
Editorial assistant of PCI Animal Science (#OpenScience) , 2021-2024
Member of scientific committe of INRAE Phase division, 2020-2024

## Publications

The complete list of publications can be found on my ORCID space. Below four selected publications.


1. Taghipoor M, pastell M, Martin O, Ba HN, Milgen J van, Wilson AD, Loncke C, Puillet L, Friggens NC and Muñoz-Tamayo R 2023. Quantification of resilience in farm animals. Zenodo
2. Macé T, Gonzalez Garcia E, Kövér G, Hazard D and Taghipoor M 2023. PhenoBR, a model to phenotype body condition dynamics in meat sheep. Animal, volume 17, Issue 6
3. Nguyen-Ba H, van Milgen J, Taghipoor M, 2020. A procedure to quantify the feed intake response of growing pigs to perturbations. Animal 14, 253–260.
4. Taghipoor M, Delattre M and Giger-Reverdin S 2020. A novel modelling approach to quantify the response of dairy goats to a high-concentrate diet. Scientific Reports 10, 20376.