



# Supervised doctoral theses and dissertations related to the pig sector:

## Theses

### Completed Theses

#### MODELOS UNDER UNCERTAINTY TO SUPPORT SOW HERD MANAGEMENT IN THE CONTEXTO OF PORK SUPPLY CHAIN

- **PhD student:** Sara Verónica Rodríguez Sanchez
- **Director:** Dr. Luis Miguel Plà Aragonès
- **Defense date:** February 26, 2010

#### MODELIZACIÓN DEL SISTEMA PRODUCTIVO PORCINO Y EVALUACIÓN DE LOS PARÁMETROS TÉCNICOS MÁS SIGNIFICATIVOS

- **PhD student:** Yulien Fernandez Romay
- **Directors:** Dr. Daniel Babort Gaspa and Dr. Luis Miguel Plà Aragonès
- **Defense date:** May 29, 2013

#### CRITERIOS E INSTRUMENTOS PARA LA TOMA DE DECISIONES EN ECONOMÍA Y EMPRESA

- **PhD student:** Francisco Javier Ezcurra Ciaurriz
- **Directors:** Dr. Luis Miguel Plà Aragonès
- **Defense date:** February 5, 2016

#### CLOUD SYSTEMS AND HPC AS EN SERVICE OF AGROINDUSTRY

- **PhD student:** Jordi Mateo Fornés
- **Directors:** Dr. Luis Miguel Plà Aragonès and Dr. Francesc Xavier Solsona Tehàs
- **Defense date:** March 29, 2019
- *Extraordinary PhD Award*

#### OPTIMIZATION MODELOS FOR IMPROVING THE DECISION-MAKING IN THE PIG PRODUCTION PROCESS UNDER A PIG SUPPLY CHAIN CONTEXTO

- **PhD student:** Esteve Nadal Roig
- **Director:** Dr. Luis Miguel Plà Aragonès
- **Defense date:** July 24, 2019

#### MAKING OPTIMIZATION MODELS FOR IMPROVING THE LOGISTICS AND COORDINATION OF FATTENING FARMS TO SLAUGHTERHOUSES

- **PhD student:** Yun Bao
- **Directors:** Dr. Luis Miguel Plà Aragonès
- **Defense date:** June 9, 2025

### Ongoing Theses



Provisional title: **Optimizaci3n de la producci3n del vacuno de leche: uso de herramientas de Inteligencia Artificial y sinergias con modelos de investigaci3n operativa**

- **PhD student:** Osvaldo Enrique Palma Rubio
- **Director:** Dr. Luis Miguel Plà Aragonès

Provisional title: **Transformaci3n digital en el sector porci: implementaci3n de la ramaderia de precisi3n a trav3s de l'anàlisi avançada de dades**

- **PhD student:** Miquel Capell Salud
- **Director:** Dr. Luis Miguel Plà Aragonès

Provisional title: **Desarrollo de una arquitectura multiagente para el manejo de la informaci3n generada por los componentes de medici3n, control y supervisi3n en un entorno Smart-Farming 4.0 de porcino de cebo.**

- **PhD student:** Vicente Lopez Sacanell
- **Director:** Dr. Luis Miguel Plà Aragonès

Provisional title: **Contributions of OR for a Sustainable Agriculture in developing countries**

- **PhD student:** Francisco Huguet
- **Director:** Dr. Luis Miguel Plà Aragonès

Provisional title: **Anàlisi de les implicacions organitzacionals del processos de digitalitzaci3n en les empreses del sector porci**

- **PhD student:** M. Margarita Moltó Aribau
- **Director:** Dr. Luis Miguel Plà Aragonès

Provisional title: **Anàlisi de dades en ramaderia de precisi3n**

- **PhD student:** Pau Font Farré
- **Directors:** Dr. Luis Miguel Plà Aragonès and Dr. Pol Llagostera Blasco

## Completed Master's

### PIGS WEIGHT ESTIMATION WITH CONVOLUTIONAL NEURAL NETWORKS

- **Master's Student:** Mihai-Catalin Doja
- **Director:** Dr. Luis Miguel Plà Aragonès
- **Defense Date:** May, 14 2025

### DEVELOPMENT OF INNOVATIVE TECHNOLOGIES FOR MONITORING AND DATA ANALYSIS IN LIVESTOCK MANAGEMENT

- **Master's Student:** David Castro Sanchez
- **Director:** Dr. Luis Miguel Plà Ar