MACIEJ MISIURA

About

PhD educated Data Scientist with an expertise in statistics and machine learning

💼 WORK EXPERIENCE

2021 | Present

Data Scientist
National Innovation Centre for Data 📍 Newcastle upon Tyne, UK

- Developed machine learning solutions for private and public sector clients
- Collaborated on several deep learning research projects in the context of automated lip reading, coreference resolution and low shot learning
- Delivered teaching content covering key stages of a data science project:

  - cleaning and wrangling,
  - exploratory data analysis,
  - modelling,
  - deployment

2018 | 2019

Data Scientist Placement
Newcastle University 📍 Newcastle upon Tyne, UK

- Contracted to undertake an investigation into quantifying environmental impacts of the UK commercial pig production systems over the last two decades
- Displayed strong analytical skills through the visualisation and interpretation of complex, commercial data
- Delivered a 10,000-word written report outlining the main findings to the Agriculture and Horticulture Development Board, which is expected to inform future government policy on identifying effective strategies to minimise environmental impacts of raising livestock animals

2015 | 2016

Indirect Tax Analyst
Deloitte 📍 Newcastle upon Tyne, UK

- Delivered tailored-made tax advice to clients from a variety of sectors including education, automotive, engineering and charity
- Improved technical writing skills by drafting engagement letters and client reports
- Performed VAT costs and savings reviews
- Demonstrated strong independent research skills and initiative by creating a large database of North East-based companies, which was utilised across regional offices for business development and client targeting
- Developed an eye for detail during monthly case law presentations

CONTACT INFO

- ✉ maciekmisiura@gmail.com
- in LinkedIn
- 📞 +44 7790 597 206

INTERESTS

Bayesian Inference

Interpretable Machine Learning

Quantification of Uncertainty for Deep Learning Models

Data Science Process Frameworks

SOFTWARE

R | ® (Tidyverse, Tidymodels, jags, Stan)

Python | 🐍 (NumPy, pandas, scikit-learn, Tensorflow)

SQL | 🗄

GitHub | ⚙

Markdown |

MLflow

🎓 EDUCATION

2016
|
2021

PhD Applied Mathematics and Statistics
Newcastle University   📍 Newcastle upon Tyne, UK

Thesis: *Mathematical and statistical modelling for a more efficient and sustainable pig production*

- Investigated ways of improving environmental sustainability of commercial pig production systems through an interdisciplinary approach encompassing computational biology, precision agriculture, nutrtion, data analytics, systematic reviews and meta-analyses
- Presented research on smart agriculture at large international conferences, including talks at EAAP and ASAS
- Authored five scientific articles
- Awarded the 2018 BSAS Murray Black Award (£1,500) for an outstanding research proposal

2011
|
2015

Maths and Statistics MMathStat, 2:1
Newcastle University   📍 Newcastle upon Tyne, UK

Thesis: *Bayesian Analysis of Paired Comparison Data*

- Delivered a 5,000 word dissertation describing predictive models of basketball matches
- Displayed strong analytical skills through extension applicaton of quantative approaches to a variety of complex problems, including analysis of healthcare data

📄 SELECTED PUBLICATIONS

2021

Bayesian comparison of models for precision feeding and management in growing-finishing pigs
Biosystems Engineering, 211, 205-218.
Misiura, M. M., Filipe, J., Brossard, L., & Kyriazakis, I.

2021

A Novel Estimation of Unobserved Pig Growth Traits for the Purposes of Precision Feeding Methods.
Frontiers in Veterinary Science, 796.
Misiura, M. M., Filipe, J., & Kyriazakis, I.

2020

How do pigs deal with dietary phosphorus deficiency?
British Journal of Nutrition, 124(3), 256-272.
Misiura, M. M., Filipe, J., Walk, C. L., & Kyriazakis, I.

2018

Do not neglect calcium: a systematic review and meta-analysis (meta-regression) of its digestibility and utilisation in growing and finishing pigs
British Journal of Nutrition, 119(11), 1207-1219.
Misiura, M. M., Filipe, J., Walk, C. L., & Kyriazakis, I.