Andrew McInerney

Ph.D. STUDENT

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Employment

University of Limerick

Limerick, Ireland

EMODERATOR - PROFESSIONAL DIPLOMA IN DATA ANALYTICS

January 2022 - Present

- Monitored forums and hosted weekly question-and-answer sessions for students in online modules titled 'Data Analytics with R' and 'Introduction to Predictive Analytics'.
- Prepared tutorial and computer-laboratory sheets for 'Introduction to Predictive Analytics'.

TUTOR - DEPARTMENT OF MATHEMATICS AND STATISTICS

September 2020 - Present

- Tutored undergraduate and postgraduate students in the following modules: Advanced Data Analysis, Applied Business Statistics, Applied Data Analysis, Statistics for Data Analytics, Stochastic Processes.
- Graded undergraduate and postgraduate assignments in addition to final examinations.

Hertz Dublin, Ireland

DATA SCIENE INTERNJune 2021 - September 2021

• Performed cluster analysis on customer and rental data to provide meaningful customer segments for the Marketing team.

Regeneron Pharmaceuticals

Limerick, Ireland

DATA ANALYTICS INTERN

January 2019 - August 2019

- Undertook an eight-month internship within the Process Monitoring and Data Analytics team.
- Main responsibilities included carrying out ad hoc statistical analyses (e.g., t-tests and ANOVA), statistical process control (SPC), and design of experiments (DOE).

Education _

University of Limerick

PhD in Statistics (SFI Centre for Research Training in Foundations of Data Science)

2020 - Present

- Title: 'A Statistical Approach to Neural Networks' (Supervisor: Dr. Kevin Burke).
- Developed likelihood-based model selection methods for feedforward neural networks.

University of Limerick

BSc in Mathematical Sciences (First Class Honours)

2016 - 2020

Technical Skills____

PROGRAMMING

- 6 years experience with R:
 - Developed R package during PhD.
 - Taught R to undergraduate and postgraduate students.
- Proficient in: SPSS, JMP, ŁTEX.
- Familiar with: AWS, Git, Python, SQL, Tableau.

Presentations

INVITED

- 2022 **Variable and Architecture Selection in Neural Networks**, The 5th International Conference on Econometrics and Statistics (EcoSta 2022)
- 2021 **Information-criteria-based Model Selection for Neural Networks**, The Royal Statistical Society International Conference 2021 (RSS)

CONTRIBUTED

- 2022 **A Statistical Approach to Neural Network Model Selection**, The 42nd Conference on Applied Statistics in Ireland (CASI 2022)
- 2021 **Information-criteria-based Model Selection for Neural Networks**, The 44th Research Students' Conference in Probability and Statistics (RSC 2021)
- 2021 **Information-criteria-based Model Selection for Neural Networks**, The 4th International Conference on Econometrics and Statistics (EcoSta 2021)

Awards _____

TREASURER

2021 RSC 2021 - 'Best Long Talk'

Volunteering _____

UL SIAM Student Chapter (Society for Industrial and Applied Mathematics)

Limerick, Ireland

September 2021 - Present

- Secured funding for the chapter from Analog Devices.
- Organised the 8th Annual Irish SIAM Student Conference.