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 INTERN   *June 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, LaTeX.
- 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)

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

| 2021 | RSC 2021 - 'Best Long Talk' |

Volunteering

UL SIAM Student Chapter (Society for Industrial and Applied Mathematics)   *Limerick, Ireland*

TREASURER   *September 2021 - Present*

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