

Alexander J. Hepburn

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Summary

My current research is in the scope of explainability/interpretability. More specifically, in modelling the interdependencies of the task-specific features and developing a grounded understanding of task-relatedness in transfer and multi-task applications.

I am also interested in the optimisation of language models, computational linguistics, and social media analysis.

Education

2019 - PRESENT

University of Glasgow – PhD Computing Science

“Learning Properties of Task Relatedness for Multi-Task Learning Optimisation”

Supervised by Dr. Richard McCreadie, Dr. Jeff Dalton

2014 - 2019

University of Glasgow – MSci Software Engineering

“Deep Learning & User Modelling”

Supervised by Dr. Joemon Jose

Publications

Conference Papers

Alexander J. Hepburn and Richard McCreadie. **Identifying Suitable Tasks for Inductive Transfer Through the Analysis of Feature Attributions.** *Under Review, 2021.*

Articles

Alexander J. Hepburn and Richard McCreadie. **On Between-task Inductive Transfer for the Classification of Crisis-related Messages on Social Media.** *Under Review, 2021.*

Professional Experience

2021

University of Glasgow – Marking Assistant

- Assistant examiner for the BSc Honours course, “Software Engineering” (Mar-Apr).
- Assistant examiner for the Masters course, “Human-Computer Interaction” (July).

2017 - 2021

University of Glasgow – Tutor/Lab Demonstrator

- Providing teaching assistance to students and marking both theoretical and practical examinations for the BSc course, “CS1P - Introductory Programming in Python.”