

## RORY DUTHIE

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### Education

#### **2015 – Present, University of Dundee**

##### **PhD student Artificial Intelligence - Machine Learning in Natural Language**

**Thesis working title:** Recognising Ethos in Natural Language

Motivation: Automatically extract character attacks and supports of politicians in Hansard, the UK parliamentary debate record.

#### **2011 – 2015, University Of Dundee**

##### **BSc (Honours) Applied Computing – 2:1**

Honours project title: The Argument Player

#### **2011 Menzieshill High School, Dundee**

##### **Scottish Highers 2009/ 2010**

Geography – A, Computing – B, English – B, Mathematics – B, Chemistry – C, Graphic Communication – B, P.E – B

##### **Scottish Advanced Higher 2010**

Computing - C

### Awards

NCR Prize For Level 1, Level 2 and Level 3 Computing – Prize given to students in top 10%.

Best Student paper award International Conference on Computational Models of Argument (COMMA) 2016

Best paper award Department of computing PhD symposium 2018

### Technical Skills

Applications: Eclipse, SQL Server Management Studio, MYSQL Workbench, Visual Studio, Code Blocks, WireShark, Netbeans

Languages: C++, C, C#, Java, SQL, Python, R, bash, Processing, HTML, Javascript and CSS

Operating Systems: Windows XP and 7, Linux Ubuntu.

Libraries: Keras, Scikit learn, d3.js

### Work Experience

#### **June 2014 – September 2014, NCR (National Cash Register) Dundee – Full Time**

##### **Software Engineer Internship**

Worked with the platform development team, automating the process of combining ATM software component packages depending on a completion state. This involved programming in C# and working with colleagues in India and Indonesia as well as ensuring components for NCR's biggest customer, the Bank of America, were automatically processed differently.

Also carried out ATM software component testing which involved ensuring each component operated in the correct way on an ATM.

## **October 2010 – February 2015; Dunelm Mill, Dundee(12 hrs a week)**

### **Sales Assistant**

Working in a team clearing large deliveries. Also left in sole charge of the market department at weekends. Providing a service to customers on the shop floor and on tills. On occasion given the responsibility of helping to cash up tills, this involves the handling of large sums of money. I also act as part of a night shift team for the setup of sale goods. This involves planning, organisation and communication within the team due to the large amount of stock received. Tasks have to be distributed evenly and communication is needed when customer orders are received in the deliveries.

### **Publications**

- Duthie, R., Budzynska, K., & Reed, C. (2016). Mining Ethos in Political Debate. In COMMA (pp. 299-310).
- Duthie, R., Lawrence, J., Budzynska, K., & Reed, C. (2016). The CASS technique for evaluating the performance of argument mining. In Proceedings of the Third Workshop on Argument Mining (ArgMining2016) (pp. 40-49).
- Lawrence, J., Duthie, R., Budzynska, K., & Reed, C. (2016). Argument Analytics. In COMMA (pp. 371-378).
- Duthie, R. and Budzynska, K. (2018). A Deep Modular RNN Approach for Ethos Mining. Proc. of IJCAI.
- Duthie, R. and Budzynska, K. (2018). Classifying Types of Ethos Support and Attack. To appear in COMMA

### **Research Interests**

Interested in NLP and text classification including sentiment analysis. Particularly, I am interested in argumentation and argument mining as well as ethos mining (automatically extracting character attacks and supports). I am also interested in visualising interesting dynamics from the automatic extraction.

### **Interests**

#### **Leadership.**

Completed courses in early year's football coaching and community sports leadership. This provided organisational skills working with large groups of children.

I was a member of the 6/8th Boys Brigade in Lochee, Dundee from 2008 until 2010. I represented this company at national and British level in Football and national level in the quiz team.

During my time at the BB I participated in classes and earned badges in leadership and community. I was promoted to Corporal level within the BB due to my hard work and commitment. I was asked to continue in the BB as an Officer but had to decline due to work commitments.

#### **Sport.**

Previously played Football and Cricket. Now a keen hillwalker.

#### **Reading.**

### **Skills**

- ECDL
- Driving. Full current clean driving license
- Languages. Speak very basic French