

Course on Dependently Typed Metaprogramming - Report

The course on Dependently Typed Metaprogramming was held at the School of Informatics, University of Edinburgh from 14 November 2013 until 3 April 2014. The course lecturer was Conor McBride (conor.mcbride@strath.ac.uk) from the Mathematically Structured Programming Group of the University of Strathclyde. Local organizers were Danel Ahman (d.ahman@ed.ac.uk) and Sam Lindley (sam.lindley@ed.ac.uk).

The course was run over seven Thursdays, each of which consisted of two one-hour lectures and one one-hour lab session.

The topics that were covered are listed below.

1. 14 November, 2013: Introduction via Vectors
2. 28 November, 2013: Metaprogramming the Simply-Typed λ -Calculus
3. 12 December, 2013: Containers and W-Types
4. 16 January, 2014: Indexed Containers
5. 30 January, 2014: Induction-Recursion
6. 20 February, 2014: Observational Equality
7. 3 April, 2014: Type Theory in Type Theory

There were approximately 27 participants* with the following affiliations:

Edinburgh	16
Strathclyde	5
Dundee	2
Heriot Watt	2

Industrial	2
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** Due to the length of the course, not everybody was able to attend every session.*

Coffee and cake catering was provided by Green Deli, at £3.70 per head. Catering was arranged for sessions 1-4.

Additional course information (including a link to the lecture notes and exercises) can be found at the course website: <http://homepages.inf.ed.ac.uk/s1225336/agda-course-13/>