

SICSA Distinguished Visiting Fellowship, Dr Andy Gill, University of Kansas and the Information and Telecommunication Technology Centre.

The host of this DVF was Professor Neil Ghani

Dr Gills visit took place from the 28th October 2013 to the 7th November 2013. During his visit he gave a number of talks as follows:

1. "Domain Specific Language Tutorial", University of Strathclyde, Master Class, Nov 6th 2013. This master class was an all day event and attracted attendees from the Universities of Glasgow, Edinburgh and Heriot-Watt.
2. "HERMIT: a Plugin for the Interactive Transformation of GHC Core Language Programs", Heriot Watt University, Nov 5th 2013.
3. "HERMIT: a Plugin for the Interactive Transformation of GHC Core Language Programs", University of St Andrews, Nov 4th 2013.
4. "HERMIT: a Plugin for the Interactive Transformation of GHC Core Language Programs", University of Edinburgh, Oct 25th 2013

Partially as a result of his work, Dr Gill published the paper

A. Gill, "Domain-specific Languages and Code Synthesis Using Haskell", Communications of the ACM, Vol. 57 No. 6, Pages 42-49, 2014. Also published in ACM Queue, Vol. 12, No. 4, pp. 30:30–30:43.

The paper contains the following acknowledgment

This paper is based upon work supported by the National Science Foundation under Grant No. CCF-1117569, and was originally presented as a master class under the Scottish Informatics & Computer Science Alliance Visiting Fellow program, in November 2013.

There is also a pending paper (to be submitted to IFL'14):

A.Gill. Blank Canvas and the remote-monad design pattern: A Foreign Function Interface to the JavaScript Canvas API

Dr Gill states that "Some of the ideas in these papers were formed during the master class."

As to the future, the success of his visit means that Dr Gill is planning on spending his sabbatical at the University of Strathclyde next year.