

Programming Language Research Programme

proposed by James Cheney and Michel Steuwer

The School of Informatics hosts a unique combination of excellent researchers in programming language theory and practice across its different institutes. Especially LFCS and ICSA have a natural research interest in the design and implementation of programming languages. LFCS hosts world class researchers in different aspects of foundations of programming languages. ICSA has world renown experts in compilation and parallel computing.

But also, researchers from other institutes of the School either have benefited in the past or could benefit in the future from a strong collaborative programming language research.

The programming language research programme intends to strengthen existing links between research groups in the school and to promote new collaboration opportunities for researchers interested in programming language research.

The programme aims for enhancing the mutual understanding of the various research interests in programming languages across the school and to promote collaboration opportunities.

This research programme will build upon the success of the Programming Interest Group, which is a School wide informal group established in 2013 by James Cheney of LFCS and since 2015 co-organized by Michel Steuwer of ICSA. This group brings regularly more than 20 people together discussing programming language research topics.

Provisional list of interested researchers

Based on the interest in the Programming Languages Interest Group meetings we list the following researchers:

From LFCS:

James Cheney
Paul Jackson
Ian Stark
Philip Wadler
James McKinna
Brian Campbell
Sam Lindley
Garrit Morris
Wilmer Ricciotti

From ICSA:

Christophe Dubach
Murray Cole
Vijay Nagarajan
Bruno Bodin
Michel Steuwer

Brief outline of planned activities

The main activity of the programme will be the regularly organise talks discussing various aspects of programming language research. This includes presentations by staff and students presenting their own research, discussion of relevant research papers, trip reports from conferences, and talks by external guest speakers.

We intend to continue with the co-organisation where a researcher from the more theoretical side (currently James Cheney) is paired with a researcher from the more practical side (currently Michel Steuwer) to alternate talks achieving a certain balance of topics.

Hopes for outcomes

The regular meetings of the Programming Language Interest Group have already proven to stimulate the interaction between research groups of different institutes leading to research publications and funding applications. We hope that the programme will continue to provide this space for exchanging research ideas from different perspectives.

We hope that the increased exposure of a research programme will help to attract more people from across the school to join in and to broaden the scope of the talks even further than it already is today.