

ITC Conference Grant - APPLICATION FORM -

Action number: CA20111

Applicant name: Philipp Joram

Conference Details

Conference title: 30th International Conference on Types for Proofs and Programs

Conference web-page: <https://types2024.itu.dk/>

Conference venue: IT University of Copenhagen

Conference start and end date: 10/06/2024 to 14/06/2024

Accepted contribution details

Title of the presentation: Comparing Quotient- and Symmetric Containers

Type of the presentation: oral

Co-authors: Niccolò Veltri

Other details of the presentation: *15-20min oral presentation. The applicant requests the maximum amount of financial support to partially cover the costs of the trip, due to the duration of the event and the height of the daily allowance in the host country (Denmark).*

Relevance of the Conference topic to the Action

Description of the relevance of the Conference to the Action (e.g., MoU objective, deliverable or WG task).

(max.500 word)

The TYPES conference is a major annual event of the type theory community in Europe. Topics covered there are in line with the objectives of *WG6 (Type Theory)*. In our work, we compare the notions of quotient- and symmetric “containers”. Both describe the syntax for polymorphic programming with quotient data types, and our work aims to clarify how their semantics relate (*RCO-7: Develop a modular theory of type theories*). The goal is to receive feedback on our results from the community, identify further avenues of research, and establish collaborations with members of *WG6*.

Motivation and expected impact

Description of the applicant’s motivation to participate in the conference and potential impact on the applicant’s career.

(max.500 word)

As a junior researcher, we expect to meet established members of the type theory community, and to understand how our work fits within the interest of the community. Participation in the conference will allow us to search for new collaborators, and to reconnect with researchers we've met at previous conferences and meetings. Considering that we are affiliated with an institution from a COST Inclusiveness Target Country (*Estonia*), presenting at such a well-established venue will strengthen our CV and increase visibility of local research within the community.