Jorge A. Pérez

- Professor, University of Groningen (The Netherlands).
- Concurrency theory, semantics, process calculi.
- Static and runtime verification techniques for message-passing programs, based on **session types** (but not only).
- Dutch consortium: "Cyclic Structures in Proofs and Programs".

Jorge A. Pérez

- Professor, University of Groningen (The Netherlands).
- Concurrency theory, semantics, process calculi.
- Static and runtime verification techniques for message-passing programs, based on **session types** (but not only).
- Dutch consortium: "Cyclic Structures in Proofs and Programs".

My work:

- Goal: Expand the scope of different verification techniques.
- **Substructural logics** and **Curry-Howard correspondences** key for integration.

Ongoing challenges:

- Type systems for deadlock-freedom: Increasing expressiveness and scope.
- Bridging message-passing and shared-memory from a Curry-Howard standpoint.

Jorge A. Pérez: Selected Works

- Asynchronous Deadlock-free Logic-based Sessions using Priorities
  (LMCS'24, ICE'24) [with van den Heuvel]
- Deadlock-free Multiparty Protocols via Routers (Static and Runtime)
  (SCICO'22, RV'23) [with van den Heuvel]
- Comparing Type Systems for Deadlock-freedom
  (CONCUR'24, ECOOP'25) [with Jaramillo]

Jorge A. Pérez: Selected Works

- Asynchronous Deadlock-free Logic-based Sessions using Priorities
  (LMCS'24, ICE'24) [with van den Heuvel]
- Deadlock-free Multiparty Protocols via Routers (Static and Runtime)
  (SCICO'22, RV'23) [with van den Heuvel]
- Comparing Type Systems for Deadlock-freedom
  (CONCUR'24, ECOOP'25) [with Jaramillo]
- A Coalgebraic View of Sessions
  (ESOP'21-TOPLAS'22) [with Keizer & Basold]
- Propositions as Sessions, from Linear Logic to Bunched Implications
  (OOPSLA'22) [with Frumin, D'Osualdo & van den Heuvel]
- Functions as Processes: Connections Between Session and Intersection Types
  (FSCD'21-LMCS'23, also: TYPES'22, APLAS'23) [with Paulus & Nantes-Sobrinho]