

30th Foundational Methods in Computer Science Program

Mount Allison University, June 7th – 11th, 2023

Locations ([click here for the campus map](#)):

- The reception is in Tweedie Hall in the Wallace McCain student centre (number 12 on the campus map).
- The BBQ on Friday evening is in Gracie's in the Wallace McCain student centre.
- All talks are in Dunn 106 (number 18 on the campus map).

Schedule:

Wednesday June 7th

6:00–8:00	Reception and registration (Tweedie Hall, Wallace McCain student centre)
-----------	--

Thursday June 8th

9:00–9:30	Registration (if not done on Wednesday night)
9:30–9:35	Welcome and opening remarks
9:35–10:25	Peter Selinger: <i>Introduction to the stabilizer calculus</i> (tutorial, part 1)
10:30–10:50	Coffee break
10:50–11:40	Dorette Pronk: <i>Double fibrations, double Grothendieck, and double colimits</i> (tutorial, part 1)
11:45–12:10	Frank Fu : <i>Towards an induction principle for nested data types</i>
12:15–1:45	Lunch (on own)
1:45–2:35	Peter Selinger: <i>Introduction to the stabilizer calculus</i> (tutorial, part 2)
2:40–3:05	Rory Lucyshyn-Wright: <i>Symmetric multicategories arising from base-valued enriched functors</i>
3:10–3:30	Coffee break
3:30–3:55	Geoff Voos: <i>Tangent Ind-categories</i>
4:00–4:25	Marcello Lanfranchi: <i>Algebraic Deformation and tangent categories</i>

Friday June 9th

9:00–9:50	Dorette Pronk: <i>Double fibrations, double Grothendieck, and double colimits</i> (tutorial, part 2)
10:00–10:25	Xiaoning Bian: <i>Generators and relations for 3-qubit Clifford+CS operators</i>
10:30–10:50	Coffee break
10:50–11:40	Priyaa Srinivasan: <i>Message passing logic for categorical quantum mechanics</i> (tutorial, part 1)
11:45–12:10	Jason Parker: <i>Initial algebras for topologically enriched multi-sorted algebraic theories</i>
12:15–1:45	Lunch (on own)
1:45–2:35	Michael Lambert: <i>Cartesian double categories</i> (tutorial, part 1)
2:40–3:05	Rose Kudzman-Blais : <i>Quantale-valued relations and cartesian quantaloids</i>
3:10–3:30	Coffee break
3:30–5:30	Waterfowl Park walk (weather permitting) or Research discussion sessions
6:00–7:00	Evening BBQ (Gracie's Cafe, Wallace McCain student centre)

Saturday June 10th

9:00–9:50	Priyaa Srinivasan: <i>Message passing logic for categorical quantum mechanics</i> (tutorial, part 2)
10:00–10:25	JS Lemay: <i>Classical Distributive Restriction Categories</i>
10:30–10:50	Coffee break
10:50–11:40	Michael Lambert: <i>Cartesian double categories</i> (tutorial, part 2)
11:45–12:10	Jean-Baptiste Vienney: <i>String diagrams for symmetric powers</i>
12:15–1:45	Lunch (on own)
1:45–2:40	Robin Cockett: <i>Categories of resistors</i> (tutorial)
2:45–3:10	Saina Daneshmandjahromi: <i>Introduction to CaMPL: tutorial, part 1</i>
3:15–3:30	Coffee break
3:30–5:30	Waterfowl Park walk (weather permitting) or Research discussion sessions

Sunday June 11th

9:00–9:25	Melika Norouzbeygi: <i>An Introduction to Categorical Message Passing Language</i> (tutorial, part 2)
9:30–9:55	Alexanna Little: <i>Semantics for Non-Determinism in Categorical Message Passing Language by Sup-Lattice Enrichment</i>
10:00–10:25	Braden Foxcroft: <i>Developing a module system for CaMPL</i>
10:30–10:50	Coffee break
10:50–11:15	Amelie Comtois: <i>Profunctors and promonoidal categories</i>
11:20–11:45	Florian Schwartz: <i>Partial monoids</i>