

ICRA'21 Workshop on Compositional Robotics: Mathematics and Tools



The goal of the workshop is to integrate **mathematical principles and practical tools for compositional robotics**, with a focus on **applied category theory** as a meta-language to talk about compositionality.



When: May 31st, from 16:15 UTC onwards.

Schedule (in UTC):

16:15–16:30: *Introduction and plan of the workshop*

16:30–17:10: *Category Theory Basics* ([Dr. Jonathan Lorand](#))

17:20–18:00: *Category Theory and Systems* ([Prof. John Baez](#))

18:00–18:30: Breakout rooms for discussion

18:30–19:10: *Categories for Co-Design* ([Dr. Andrea Censi](#), [Gioele Zardini](#))

19:20–20:00: *Dynamic Interaction Patterns* ([Dr. David Spivak](#))

20:00–20:30: Breakout rooms for discussion

20:30–21:15: *A Categorical Perspective on Robotics* ([Prof. Aaron Ames](#))

21:30–22:15: *Toward a Grounded Type Theory for Robot Task Composition*
([Prof. Daniel Koditschek](#), [Dr. Paul Gustafson](#), [Dr. Matthew Kvalheim](#))

22:30–00:30: Talks from open submissions



Register and learn more at: bit.ly/34ie5Az



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