

Rotman Graduate Student Conference

Complexity and Explanation

May 15-16, 2021 on Zoom

Registration required: <https://tinyurl.com/xdk5aebk>

May 15, 2021

All times in EDT

10:00 AM

Introduction and welcome message from Co-Chairs

10:15 AM

Coherence and success in model-mediated measurement: Epistemological lessons from the determination of earth's ellipticity

Miguel Ohnesorge, Department of History and Philosophy of Science, University of Cambridge

11:15 AM Break

11:30 AM

Understanding and modality in distinctively mathematical explanations of complex systems

Aditya Jha, Department of Mathematics and Statistics, University of Canterbury

12:30 PM Lunch

1:30 PM

Representation without constraint: A critique of Poldrack's account of object detection using artificial networks

Heather Champion, Rotman Institute of Philosophy, Western University

2:30 PM Break

2:45 PM

Well-defined causal variables and varieties of intervention

Zili Dong, Rotman Institute of Philosophy, Western University

3:45 PM Break

4:00-5:30 PM

KEYNOTE TALK:

Why the Past Matters: Scientific Taxonomy and Etiological Kinds

Dr. Muhammad-Ali Khalidi, Presidential Professor of Philosophy, City University of New York

May 16, 2021

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9:30 AM

Renormalization group explanation: A hotchpotch picture

Ziren Yang, Department of Philosophy, University of Miami

10:30 AM Break

10:45 AM

KEYNOTE TALK:

An Externalist Teleology

Dr. Daniel McShea, Professor of Biology, Duke University

12:15 PM Lunch

1:15 PM

Explaining causation in international migration with a complex-system approach

Gregorie Dupuis-Mcdonald, Department of Philosophy, University of Salzburg

2:15 PM Break

2:30 PM

A modified account of explanatory fictions in science

Clair Baleshta, Department of Philosophy, University of Guelph

3:30 PM Break

3:45 PM

How do functional models in cognitive science represent and explain?

Paul Kelly, Department of Philosophy, University of Wisconsin-Madison

4:45-4:50 PM

Closing remarks