

Programme		
Posters may be presented during the conference breaks and lunches.		
Thursday, June 13		
	Room #1: amphithéâtre Bilsky-Pasquier	Room #2: amphithéâtre Gustave Roussy
8:30-9:00	welcome. Marie Curie room	welcome. Marie Curie room
9:00-10:00	plenary conference: Anouk Barberousse. "Models for non-modellers in climate science"	
10:00 -10:30	break - Marie Curie room	break - Marie Curie room
	Parallel session 1.1A: Reasoning with and about models	Parallel session 1.1B: Model transfers
10:30 - 11:10	Michael Stoeltzner – « The Lower Bound of Models »	Peter Tan - « Generality vs Analogy in Interdisciplinary Model Transfer »
11:10 - 11: 50	Andre Curtis-Trudel, Darrell Rowbottom - « Computational science and the problem of unconceived alternatives: lessons from gravitational-wave astrophysics »	Chia-Hua Lin – « Explaining the Success of Transdisciplinary Modeling »
11:50 - 12:30	Benjamin Santos Genta – « Two Kinds of Similarity Judgments in Reasoning from Models »	Tarja Knuuttila & Andrea Loettgers (& Maximilian Noichl) – « The Kuramoto model: The Biography of a Model Template »
12:30- 14:00	lunch (buffet) and posters - Marie Curie room	lunch (buffet) and posters - Marie Curie room
	Parallel session 1.2A: Data and pictures	Parallel session 1.2B: Representating non-deterministic systems
14:00-14:40	Cyrille Imbert - "Data as storage artefacts: a naturalist framework"	Cedric Gauchere – « Epistemological consequences of Possibilistic models »
14:40-15:20	Lorenzo Sartori – « Why do we love pictures (for the wrong reasons): Scientific pictures, models, and their justification »	Mike Miller – « Representing Quantum Indeterminacy »
15:20- 15:50	break - Marie Curie room	break - Marie Curie room
	Parallel session 1.3A: Emergence	Parallel session 1.3B: Data and measurements
15:50- 16:30	Alexandre Guay & Olivier Sartenaer – « Humphreys' transformational emergence and its (difficult) reception »	Brigitte Falkenburg - « Computer Simulation in Data Analysis: A Case Study from Particle Physics »
16:30- 17:10	Robert Batterman – « Autonomy, Emergence, and Deep Learning »	Eran Tal – « Measurement and the Riddle of Factuality
17:10 - 17:30	mini break	mini break
17:30 - 18:30	Margie time (details announced soon)	
Friday, June 14		
	Room #1: amphithéâtre Bilsky-Pasquier	Room #2: amphithéâtre Gustave Roussy
9:00-10:00	plenary conference: Nicolas Fillion. "Is perturbation the ugly duckling of mathematics?"	
10:00 -10:30	break - Marie Curie room	break - Marie Curie room
	Parallel session 2.4: Explanation and understanding	Parallel session 2.4B: Machine Learning and IA
10:30 - 11:10	Philippe Huneman – Complex systems and the case for structural explanations	Eamon Duede – « Novel Epistemological Predicaments for AI-Infused Science »
11:10 - 11: 50	Oscar Westerblad – « On primary and secondary scientific understanding »	Juan Duran – « On reliabilism as an epistemology for ML »
11:50 - 12:30	Jim Woodward - « There is no such thing as a statistical explanation »	Emanuele Ratti, Alberto Termine, Alessandro Facchini – « Theory-ladenness, Machine Learning, and Phenomenological Models »
12:30- 14:00	lunch (buffet) and posters	lunch (buffet) and posters
	poster#1: Emma Cavazzoni, Sabina Leonelli - « Model Systems Across the Lab and the Field: Organismal Samples »	poster#4: Sadegh Mirzaee - « Accommodation of Styles in the Modeling Space »
	poster#2: Margarida Hermida, James Ladyman - « Biophysics and the unity of science"	poster#5: Nanxin Wei - « The Story Behind and Beyond Minimal Models »
	poster#3: Maxime Hilbert, Olivier Sartenaer - « The Rise and Fall of a Myth about British Emergentism. Or Paul Humphreys' Missing History of Emergence »	poster#6. Connie Knieling - "Machine Learning Models as Minimal Data Models: Explanations without Representations?"
	Parallel session 2.5A: Logic and mathematics	Parallel session 2.5B: Maxwellian Issues
14:00 - 14:40	Matias Osta Vélez, Matteo De Benedetto – « The Normative Dimension of Logical Modeling »	Francesco Nappo – "Maxwell on Geometrical and Physical Reasoning »
14:40-15:20	Jacques Dubucs – "Feasibility in Logic, Tractability in Mathematics"	Mauricio Suarez – « Maxwell's Theory is Maxwell's Equations: Abstraction as a Process »
15:20-15:50	break	break
	Parallel session 2.6A: Climate Models and Measurements	Parallel session 2.6B: Physical models and their epistemic roles
15:50- 16:30	"Matthias Ackermann – « Navigating Uncertainty – Climate Models as Epistemic Tools »	Sorin Bangu – « Reductionism, Constructionism and Explanation: The BCS model of Superconductivity »
16:30- 17:10	Rawad El Skaf – « Climate Change Socioeconomic Scenarios: How Thought Experiments, Computational Models and Controlled Experiments Meet »	Quentin Rodriguez, Vincent Ardourel – « What model is the "Ising model"? When a model fulfills different epistemic functions across history »
17:10 - 17:30	break	break
17:30 - 18:30	plenary conference: Emily Sullivan: Machine Learning in science: Dimensions of understanding	
19:30	conference dinner at Le Petit Prince de Paris, 12 Rue de Lanneau, 75005 Paris	
Saturday, June 15		
	Room #1: amphithéâtre Bilsky-Pasquier	Room #2: amphithéâtre Gustave Roussy
	Parallel session 3.7A: Mathematics, inferences, and accessibility	Parallel session 3.7B: The epistemology of extended agents
09:00 -09:40	David Waszek - « From scientific representations and applied mathematics to mathematical notations: Studying epistemic accessibility »	Ramon Alvarado - « Deflationary Empiricism or Radical Externalism: The epistemology of computational methods in Margaret Morrison's and Paul Humphreys' Work »
09:40 -10:20	Nico Formánek – « Epicycles revisited »	Nick Wiggershaus – « Why we should think of computational implementation as a three-place relation »
10:20 - 11:00	Alison Springle, Elay Shech – « Scientific Representations as Tools of Practical Access »	Charles Rathkopf – « Extending ourselves with generative AI »
11:00 - 11: 20	break	break
11:20 - 12:20	plenary conference: Roman Frigg: "Modelling, Representation, and Scientific Understanding"	