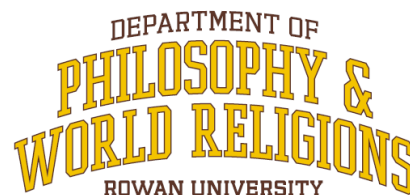


Society for Philosophy of Science in Practice 10th Biennial Conference
2nd Draft Programme (3 May)



Philosophy
College of Arts and Sciences
UNIVERSITY OF SOUTH CAROLINA



MINNESOTA CENTER *for*
PHILOSOPHY OF SCIENCE

Conference location:

University Conference Center, Close-Hipp Building (8th Floor), University of South Carolina

WEDNESDAY 15 MAY

Preconference workshop on CITIZEN SCIENCE

University Conference Center, Close-Hipp Building (8th Floor)

Room: Eastview

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| 9:30 – 10:00 | Registration (at the entrance of the conference center) |
| 10:00 – 15:00 | Workshop sessions (details in the next version of the programme) |
| 15:00 – 17:30 | Field trip (USC Arboretum) |

THURSDAY 16 MAY

University Conference Center, Close-Hipp Building (8th Floor)
 We use 5 rooms: Lumpkin Auditorium, Eastview, Westview, Summit East & Summit West

8:30 – 9:00 **Registration** (at the entrance of the conference center)

9:00 – 9:15 **Opening session** (Lumpkin Auditorium)

9:15 – 10:30 **Plenary Lecture 1** (Lumpkin Auditorium)

Chiara Ambrosio (University College London): **The Art of Doing**
 Chair: Justin Biddle

10:30 – 11:00 **Coffee Break** (area around Lumpkin Auditorium)

11:00 – 12:30 **Concurrent Sessions 1**

Contributed talks 1A <i>Lumpkin Auditorium</i> Chair: Julia Bursten Symposium: Sowing a Philosophy of Agricultural Science (41) The Pursuit of Useful Knowledge in Agriculture, 1887–1920 <i>Joshua Tonkel</i> Implementing Sustainable Agricultural Practices: A Partial Overlaps Approach <i>Ryan E. McCoy</i>	Contributed talks 1B <i>Eastview</i> Chair: Caitlin Mace Philosophy of cognitive science & psychology Perception, Belief, and the Laws of Appearance <i>Philip Groth</i> (66) Uncertainty, Control, and Affective Affordances: Towards an Integrated Enactivist Account of OCD <i>Joshua Barden</i> (100) The explanatory power of network dynamics	Contributed talks 1C <i>Westview</i> Chair: XX Scientific Methodology I (progress & change) Distributive Creativity, Epistemic Environments and Scientific Progress <i>Ioan Muntean</i> (102) Epistemic Actions: A Scientonomic Framework <i>Joshua Allen</i> (74) How to Get Pregnant (Or: Pregnancy, Methodology, and Metaphilosophy)	Contributed talks 1D <i>Summit East</i> Chair: Manuela Fernandez Pinto Philosophy of Medicine I A Biological and Philosophical Comparison of Early Fetal Tissue and Tumors in the Post-Roe Era <i>Haley Cionfolo & Caleb Hazelwood</i> (5) The Epistemic Risks of Regulation, Side Effect	Contributed talks 1E <i>Summit West</i> Chair: Chiara Ambrosio History & Philosophy of science The Animal Leyden Jar: Analogy and Exploratory Experimentation in the History of Electrophysiology <i>Richard Vagnino</i> (42) Mound Builders and Mound Blunders: 19th Century Archaeology and the Image of Science
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Digging deep in the sociality of interaction: lessons from knowledge-making in potato science <i>Julia Bursten & Catherine Kendig</i>	Dingmar van Eck (81)	Maja Sidzinska (29)	Reporting and the Risk of Wishful Speaking <i>Ilvie Prince (44)</i> Experiments as the target of models: On the validation of computer simulation models in drug regulation <i>HyeJeong Han (78)</i>	<i>TJ Perkins (67)</i> How HPS can enhance scientific learning and inquiry today: the case of electrolysis <i>Hasok Chang (95)</i>
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12:30 – 14:00 Lunch

Suggested places for lunch

Restaurants within a mile of the conference center.

[Mr. Friendly's](#) [Publico](#) [Gourmet Shop](#) [Immaculate Consumption](#) [Cool Beans](#) [Pho Viet Restaurant](#) [Backstreets Grill](#) [Il Giorgione](#)
[Ban Sawan](#) [Ruby Sunshine](#) [Green Olive](#) [Market on Main](#) [Cantina 76](#) [MOA](#)

Brewing companies near campus

[Columbia Craft Brewing Company](#) (very walkable) [Craft and Draft](#) [Bierkeller](#) [Hunter Gatherer](#)

14:00 – 16:00

Concurrent Sessions 2

Contributed talks 2A <i>Lumpkin Auditorium</i> Chair: XX Philosophy of Medicine II The Value of "Research" in Osteopathic vs Allopathic Medical Education: A conceptual analysis in context <i>Devora Shapiro</i> (40) Data Integrity Through Validation Method Revelation in Real-World Evidence <i>Yun-Ying Kuo & Karen Yan</i> (26) Using the interventionist theory to unify exploratory and hypothesis-driven activities in biomedical research <i>Yin Chung Au</i> (48) Values in Psychosocial Measurement <i>Sebastian Rodriguez Duque</i> (99)	Contributed talks 2B <i>Eastview</i> Chair: Sepehr Ehsani Philosophy of Biology I (evolution) Larger-Scale Databases and Research on Human Evolution <i>Matilde Carrera</i> (110) Individualized niche construction in population-environment systems <i>Marshall Abrams</i> (103) Disentangling Domestication: Are Humans Domesticated? <i>Jason Zinser</i> (62) Rethinking Time in Heterochrony <i>Cassandra Zie Yang</i> (72)	Contributed talks 2C <i>Westview</i> Chair: XX Scientific Methodology II (pluralism & disagreement) Multiverse analysis as a plausible solution to the replication crisis <i>Mariusz Maziarz</i> (17) The Evidential Significance of Model Disagreement <i>Matthew Maxwell</i> (69) Dissent as an Internal Self-Control Mechanism <i>Ann-Christin Fischer</i> (9) Pragmatic Pluralism <i>Erman Sozudogru</i> (47)	Contributed talks 2D <i>Summit East</i> Chair: Manuela Fernandez Pinto Ethics & Scientific Integrity The construction of GE mosquitoes with gene drives as the solution to the high incidence of mosquito-borne diseases: An epistemically and ethically responsible scientific practice? <i>Zahra Meghani</i> (55) Academic Discussions on Human Enhancement Meet Science: A Quantitative Analysis <i>Tomasz Żuradzki, Piotr Bystranowski & Vilius Dranseika</i> (86) Epistemic self-servingness – The corrupting effects of seeking knowledge <i>Alexander Christian</i> (92), How Can We Know if You're Serious? Ethics Washing, Trustworthy AI, and Science Governance in Practice	Contributed talks 2E <i>Summit West</i> Chair: Hasok Chang Philosophy of Physics & Astronomy Back to the Problem of Space <i>Joshua Eisenthal</i> (25) Signatures: A core concept from particle physics practice and its philosophical significance <i>Michael Stoeltzner & Peter Maettig</i> (38) 'Instruments of Our Own Species': How Observational Elitism in Astronomy Delayed the Discovery of Personal Observational Differences <i>Matthew D. Lund & Janna Katharina Müller</i> (98) Deux clefs de la Physique : Calculation and Experiment in Du Chatelet's Physics of Fire <i>Michael Veldman</i> (109)
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			Justin Biddle (117)	
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16:00 – 16:30 **Coffee Break** (area around Lumpkin Auditorium)

16:30 – 18:00 **Concurrent Sessions 3**

Contributed talks 3A <i>Lumpkin Auditorium</i> Chair: Maja Sidzińska Philosophy & Scientific Practice Scientific Practice & the Metaphysics of History <i>Adrian Currie</i> (8) Scientific Practice and a Fourth Dogma of Empiricism <i>Joseph Rouse</i> (30) Searching for the Big Picture in Philosophy of Scientific Practice <i>Beckett Sterner</i> (111)	Contributed talks 3B <i>Eastview</i> Chair: Devora Shapiro Philosophy of Neuroscience On Generalizing Stipulated Functions <i>Caitlin Mace</i> (84) Mapping the Brain - the tyranny of Hubel and Wiesel <i>Stuart Firestein</i> (10) Beyond One-Size-Fits-All: Reframing Cognitive Variations and Individual Differences in Cognitive Science and Neuroscience Research <i>Yi-Hsuan Kao</i> (53)	Contributed talks 3C <i>Westview</i> Chair: Erik Weber Scientific Methodology III (causation) No Cause for Concern: Why even indefinitely many potential confounders do not undermine randomized experiments <i>Raphael Scholl & Fabio Molo</i> (88) From metaphysics to epistemology of causal production: using variation to trace transmission of information <i>Phyllis Illari & Federica Russo</i> (46) Against standardising mean differences Ina Jäntgen (64)	Contributed talks 3D <i>Summit East</i> Chair: Matthew Lund Science & Society I The President and the Hurricane <i>Brandon Boesch</i> (13) Science and societal problems <i>Julie Mennes</i> (91) Standpoint Theory & Science Policy: Indigenous Peoples and Wildfire Management <i>Adam Smith</i> (104)	Contributed talks 3E
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18:30 – 20:30 **Welcome event** (cocktail hour with food) at [701 Whaley](#).

FRIDAY 17 MAY

9:15 – 10:45

Concurrent Sessions 4

Contributed talks 4A <i>Lumpkin Auditorium</i> Chair: Elliott Hauser Research across Disciplines & Cultures Organized Entanglement: A Case Report of Casual Interdisciplinary Organization in a Biological Research Project <i>James Griesemer & Elihu Gerson</i> (83) Interdisciplinary Research & Integration in Social Robotics <i>Erik Weber & Julie Mennes</i> (57) “Yes No Other”: Error, Uncertainty, and Ontic Risk in Cross-Cultural Databases <i>Andrew Buskell</i> (15)	Contributed talks 4B <i>Eastview</i> Chair: Michael Stoeltzner Philosophy of Biology II Dynamic Monism for Biological Function <i>Milan Ney</i> (68) Models of Information in Structural Biology <i>Agnes Bolinska</i> (107) A Framework for Evaluating Behavioral Traits <i>Lauren Wilson</i> (63)	Contributed talks 4C <i>Westview</i> Chair: Ingo Brigandt Scientific Methodology IV Crafting Scientific Narratives <i>Devin Gouvêa</i> (75) Evaluative Categories and their Blinding Effect <i>Simon Brausch & Sam Ducourant</i> (28) Error Repertoires <i>Douglas Allchin</i> (21)	Contributed talks 4D <i>Summit East</i> Chair: Monika Piotrowska Philosophy of Artificial Intelligence I (explainability & opacity) Why is it (still) Difficult to Understand Black-Box Models? Explainable Artificial Intelligence and the Experimenters’ Regress <i>Siyu Yao</i> (32) Explainability with Large Language Models: The Meta-Explainability Problem <i>Alberto Termine, Andrea Ferrario & Alessandro Facchini</i> (49) Of Opaque Oracles - AI poses no new problems for social epistemology of scientific knowledge <i>Jakob Ortmann</i> (52)	Contributed talks 4E
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10:45 – 11:15

Coffee Break & Poster session (area around Lumpkin Auditorium)

11:15 – 12:30 Plenary Lecture 2 (Lumpkin Auditorium)

Leah McClimans (University of South Carolina): **Patient-Centered Measurement**

Chair: Alan Love

12:30 – 14:00 Lunch

14:00 – 16:00 Concurrent Sessions 5

Contributed talks 5A <i>Lumpkin Auditorium</i> Chair: Dana Matthiessen Symposium: Measurement Across the Life Sciences: Conceptual Issues (35) Measurement in High-Throughput Biology: Moving Beyond the “Objective” and “Data-Driven” Ideals <i>Dana Matthiessen</i> Measuring and Extending Biological Sex <i>Marina DiMarco & Aja Watkins</i> Measuring Biological Function in Biomechanics <i>Alan Love</i> Measurement of Fitness and Estimation of its Properties <i>Ruth Shaw</i>	Contributed talks 5B <i>Eastview</i> Chair: XX Miscellaneous Reversing Gene Drives: Insights from the Art of Restoration <i>Monika Piotrowska</i> (37) Decoding Sustainability: A comparison between Life Cycle Assessment and the Institutional Compass <i>Maria del Rosario Martinez Ordaz, Michèle Friend & Ahmad Yaman Abdin</i> (97) Colonialism in the Geosciences: A Closer Look at Extractive Practices <i>Leticia Castillo Brache</i> (114) Normative Work for Concept Functions: From	Contributed talks 5C <i>Westview</i> Chair: Justin Biddle Science Communication A pink lie: How France fell in love with a placebo <i>Juliette Ferry-Danini</i> (19) When is it rational to distrust scientists? <i>Sally Geislar & Bennett Holman</i> (70) Sensational cognitive claims <i>David Colaço</i> (82) What Is Epistemic Intimidation, and What Should We Do About It? <i>Manuela Fernández Pinto & Anna Leuschner</i> (89)	Contributed talks 5D <i>Summit East</i> Chairs: Federica Bocchi & Stefano Canali Symposium: Demanding Evidence and Addressing Justice at the Intersection of Health and Environmental Sciences (31) Two senses of ‘evidence’ in Evidence-Based Conservation <i>Federica Bocchi</i> Discursive entrenchment: genetic epidemiology in precision medicine <i>Ariane Hanemaayer</i> Can Wearables Fix Validity in Evidence-Based Medicine? <i>Stefano Canali</i> Are Protected and Conserved areas effective for biodiversity	Contributed talks 5E <i>Summit West</i> Chair: Julia Bursten Metaphysics of Science Natural Selection, Scientific Practice, and the Boundaries of a Biological Individual <i>Caleb Hazelwood</i> (33) Pragmatic Idealism <i>Christopher Spano</i> (54) Mathematics and the meshing of plans: Doctrine, Drill, and Shared Agency <i>Elliott Hauser</i> (116) Reconciling Process and Structure: Towards a Process-based Ontic Structural Realism <i>Yihan Jiang</i> (22)
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	Scientific Concepts to Conceptual Engineering <i>Ingo Brigandt (16)</i>		conservation? A reflection on Methods and tools for decision-making <i>Helena Alves Pinto</i>	
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16:00 – 16:30 **Coffee Break & Poster Session** (area around Lumpkin Auditorium)

16:30 – 18:00 **Concurrent Sessions 6**

Contributed talks 6A <i>Lumpkin Auditorium</i> Chair: Aja Watkins Symposium: Philosophy on Fire. Evidence, Ethics, and Explanations in Fire Science and Fire Policy (39) Regime change, new tinder, and fire ecology in a novel pyrocene <i>Derek Halm</i> Evidence in Fire Science <i>Aja Watkins</i> Climate Change, Wildfires, and Causation <i>Jay Odenbaugh</i>	Contributed talks 6B <i>Eastview</i> Chair: Yin Chun Au Science & Society II (evidence-based policy) Evidence in Evidence-Based Management: Challenging Weber et al. (2023) <i>Paride del Grosso & Kato Van Roey (51)</i> Counteractive Mechanisms and Effect Indeterminacy in Evidence-based Policy <i>Qianru Wang (36)</i> Using Scientific Knowledge to Democratize Authoritarian Societies <i>Viorel Pâslaru (115)</i>	Contributed talks 6C <i>Westview</i> Chair: Agnieszka Bolinska Philosophy of Artificial Intelligence II Artificial Intelligence Benchmarks and Degenerating Research <i>Catherine Stinson (77)</i> Promises and perils of big data: Philosophical constraints on chemical ontologies <i>Rebekah Duke, Ryan McCoy, Chad Risko & Julia Bursten (80)</i> The rise of the robots: automation, AI, and the future of research <i>Stephan Guttinger (96)</i>	Contributed talks 6D <i>Summit East</i> Chair: Alan Love Philosophy of Biology III The Future of the Model Organism Repertoire <i>Rachel Ankeny & Sabina Leonelli (14)</i> Model Systems Across the Lab and the Field: Organismal Samples <i>Emma Cavazzoni & Sabina Leonelli (23)</i> Specialisation of stem cell biology and its downside: Three case studies <i>Yoshinari Yoshida & Sabina Leonelli (113)</i>	Contributed talks 6E
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19:00 **Conference diner** (BBQ) in the garden of the [Anne Frank Center](#) on campus

SATURDAY 18 MAY

9:15 – 10:45

Concurrent Sessions 7

Contributed talks 7A <i>Lumpkin Auditorium</i> Chair: Celso Neto Symposium: Individuality and Genealogy Across Living Systems (61) Phylogenetic Complexity and its Consequences <i>Maureen Kearney</i> Applying the Recursive Account of Individuality <i>Matt Haber</i> Individuating Human Lineages <i>Celso Neto</i>	Contributed talks 7B <i>Eastview</i> Chair: Matthew Lund Science & Values A Virtue Epistemological Rejection of the Value-Free Ideal <i>Sindhuja Bhakthavatsalam</i> (76) Science and Value: An Empirical Analysis <i>Myron Penner, Amanda Nichols & Matthew Billet</i> (56) Revitalizing the Value-Free Ideal of Science: The Temporal Role of Values <i>Hanyu Ma</i> (20)	Contributed talks 7C <i>Westview</i> Chair: Erik Weber Scientific Explanation Computational Explanations as a Guide to What is Worth Explaining <i>Annabelle Tao</i> (123) Scientific explanations in the wild: on learning from case studies in the philosophy of science in practice <i>Julie Schweer</i> (58)	Contributed talks 7D <i>Summit East</i> Chair: Rachel Ankeny Philosophy of Medicine III Loving Ignorance, Expert Trustworthiness, and Patient Integration in Psychiatric Research <i>Manasa Gopakumar</i> (24) Toward an Affective Account of Distrust in Medical Science <i>Katherine Furman</i> (45) A cross-cultural study on the ethics and moral psychology of HPV vaccination <i>Andrea Quint, Phuc Nguyen, María Alejandra Petino Zappala & *Nora Heinzelmann</i> (50)	Contributed talks 4E
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10:45 – 11:15 **Coffee Break** (area around Lumpkin Auditorium)

11:15 – 12:30 **Plenary Lecture 3** (Lumpkin Auditorium)

Sean Valles (Michigan State University): Being A Philosopher of Science In Practice, in an Inequitable World Chair: Catherine Kendig
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12:30 – 14:00 **Lunch**

14:00 – 15:00 **Closing session** (Lumpkin Auditorium)

14.00 -- 14:15	Closing remarks
14:15 -- 15:00	SPSP business meeting (all participants welcome)

POSTER PRESENTATIONS AT SPSP 2024

- Matthew Brewr (Boston University): *When Can Absence of Evidence Be Evidence of Absence?: A Case Study of Geological Practice.*
- Francisco Calderón (University of Michigan): *The (beta) decay of effective realism.*
- Mathilde Carrera (Boston University): *To the girl who cried pain they asked "How much"? On pain measurements in gynecological contexts.*
- Leticia Castillo Brache (Boston University): *The Many Faces of Parachute Science: Exploring Epistemic and Ethical Harms as Distributive Injustices.*
- Emma Cavazzoni (University of Exeter): *Why Open Science Needs Philosophy.*
- Sepehr Ehsani (University College London): *Examining Part–Part Interactions toward Improving Explanations in Cell Biology.*
- Patrick Ferree (University of Copenhagen): *Technical and epistemic objects in cell-type classification: A study of single-cell sequencing platforms.*
- Manasa Gopakumar (Temple University): *The Epistemic Precautionary Principle for Research in Controversial Domains.*
- Kayoung Kim (University of Notre Dame): *Dealing with Reproducibility Crisis in Biochemistry: Constructing Guidelines for a More Trustworthy Experimental Report on Enzyme Data.*
- Julieta Macome (Cambridge University): *Philosophy for Science: The Case of Origins of Life Research.*
- Amir Metasherei (University of South Carolina): *Science and Tradition: Towards a Pluralistic Approach.*
- Isaac Record (Michigan State University): *Critical Making to Solve Wicked Problems: Changes in Student Knowledge and Attitudes about Problem Solving in a Philosophy of Science Classroom.*
- Jim Stewart (University of South Carolina): *Evidential Weight: Towards Resolving IBE's Failure to Match Scientific Practice.*
- Marlene van den Bos (Bielefeld University): *Individual Based Research - A New Scientific Practice?*
- Yoshinari Yoshida (University of Exeter): *Great ape iPS cells as a model system for human Evo-Devo.*