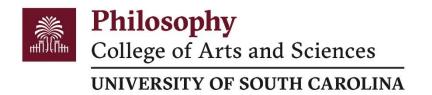
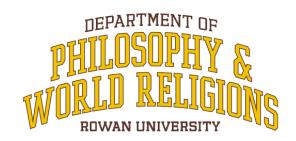
# Society for Philosophy of Science in Practice 10<sup>th</sup> Biennial Conference Final Programme (13 May)

[This is the last programme version posted on the website. Updates are given in the Opening Session of the conference]







#### **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 (8<sup>th</sup> Floor)

Room: Eastview

9:30 – 10.00	Arrival & registration (at the entrance of the conference center).
10:00 - 11:30	Session 1: Citizen Science from Campus to the Capitol (Chair: Ryan McCoy, USDA/Washington and Lee University)  Matt Kisner, USC Philosophy, "Environmental Ethics and Community Engagement at USC: A Case Study"  Grant Foster, USC Biology, "Citizen Science in a Changing World"
11:30 – 12:45	Lunch
12:45 – 14:15	Session 2: Natural History for the Modern World (Chair: <u>Dustin Sigsbee</u> , USC Philosophy) <u>Herrick Brown</u> , USC Andrew Charles Moore Herbarium, "Tools of Citizen Science in Herbarium Curation" <u>Arlene Marturano</u> , South Carolina Garden-Based Learning Network <i>Data Dialogs: Citizen Science in Entomology, Meteorology, and Beyond</i>
14:30 – 15:00	Session 3: Closing Panel (Session Moderator: <u>Julia Bursten</u> )  "The Interplay of Citizen Science and Philosophy of Science in Practice" All Speakers, Session Chairs, and Professor <u>Rachel Ankeny</u> (Wageningen University and Research)
15:00 – 15:15	Orientation to iNaturalist
15:30 15:45-17:45	Depart for field trip to USC Arboretum  Arboretum field trip led by Hilda Flamholtz

#### **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	Contributed talks 1B	Contributed talks 1C	Contributed talks 1D	Contributed talks 1E
Lumpkin Auditorium	Eastview	Westview	Summit East	
Chair: Julia Bursten	Chair: Chiara Ambrosio	Chair: Erman Sozudogru	Chair: Manuela Fernandez	
Symposium: Sowing a	History & Philosophy of	Scientific Methodology I	Pinto	
Philosophy of Agricultural	Science	(progress & change)	Philosophy of Medicine I	
Science (41)	The Animal Leyden Jar:	Distributive Creativity,	A Biological and	
The Pursuit of Useful	Analogy and Exploratory	Epistemic Environments	Philosophical Comparison	
Knowledge in Agriculture,	Experimentation in the	and Scientific Progress	of Early Fetal Tissue and	
1887–1920	History of	Ioan Muntean (102)	Tumors in the Post-Roe	
Joshua Tonkel	Electrophysiology	Epistemic Actions: A	Era	
Implementing Sustainable	Richard Vagnino (42)	Scientonomic Framework	Haley Cionfolo & Caleb	
Agricultural Practices: A	Mound Builders and	Joshua Allen (74)	Hazelwood (5)	
Partial Overlaps Approach	Mound Blunders: 19th	How to Get Pregnant (Or:	The Epistemic Risks of	
Ryan E. McCoy	Century Archaeology and	Pregnancy, Methodology,	Regulation, Side Effect	
	the Image of Science	and Metaphilosophy)		

Digging deep in the	TJ Perkins (67)	Maja Sidzinska (29)	Reporting and the Risk of	
sociality of interaction:	How HPS can enhance		Wishful Speaking	
lessons from knowledge-	scientific learning and		Ilvie Prince (44)	
making in potato science	inquiry today: the case of		Experiments as the target	
Julia Bursten & Catherine	electrolysis		of models: On the	
Kendig	Hasok Chang (95)		validation of computer	
			simulation models in drug	
			regulation	
			HyeJeong Han (78)	

#### 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	Contributed talks 2B	Contributed talks 2C	Contributed talks 2D	Contributed talks 2E
Lumpkin Auditorium	Eastview	Westview	Summit East	Summit West
Chair: Katherine Furman	Chair: Sepehr Ehsani	Chair: Julie Mennes	Chair: Manuela Fernandez	Chair: Hasok Chang
Philosophy of Medicine II	Philosophy of Biology I	Scientific Methodology II	Pinto	Philosophy of Physics &
The Value of "Research" in	(evolution)	(pluralism &	Ethics & Scientific	Astronomy
Osteopathic vs Allopathic	Larger-Scale Databases	disagreement)	Integrity	Back to the Problem of
Medical Education: A	and Research on Human	Multiverse analysis as a	Academic Discussions on	Space
conceptual analysis in	Evolution	plausible solution to the	Human Enhancement	Joshua Eisenthal (25)
context	Matilde Carrera (110)	replication crisis	Meet Science: A	Signatures: A core concept
Devora Shapiro (40)	Individualized niche	Mariusz Maziarz (17)	Quantitative Analysis	from particle physics
Data Integrity Through	construction in	The Evidential Significance	Tomasz Żuradzki, Piotr	practice and its
Validation Method	population-environment	of Model Disagreement	Bystranowski & Vilius	philosophical significance
Revelation in Real-World	systems	Matthew Maxwell (69)	Dranseika (86)	Michael Stoeltzner & Peter
Evidence	Marshall Abrams (103)	Dissent as an Internal Self-	Epistemic self-servingness	Maettig (38)
Yun-Ying Kuo & Karen Yan	Disentangling	Control Mechanism	– The corrupting effects of	'Instruments of Our Own
(26)	Domestication: Are	Ann-Christin Fischer (9)	seeking knowledge	Species': How
Using the interventionist	Humans Domesticated?	Pragmatic Pluralism	Alexander Christian (92),	Observational Elitism in
theory to unify	Jason Zinser (62)	Erman Sozudogru (47)	How Can We Know if	Astronomy Delayed the
exploratory and	Rethinking Time in		You're Serious? Ethics	Discovery of Personal
hypothesis-driven	Heterochrony		Washing, Trustworthy AI,	Observational Differences
activities in biomedical	Cassandra Zie Yang (72)		and Science Governance	Matthew D. Lund & Janna
research			in Practice	Katharina Müller (98)
Yin Chung Au (48)			Justin Biddle (117)	Deux clefs de la Physique :
Values in Psychosocial				Calculation and
Measurement			[This session ends at	Experiment in Du
Sebastian Rodriguez			15:30]	Chatelet's Physics of Fire
Duque (99)				Michael Veldman (109)

**16:00 – 16:30** Coffee Break (area around Lumpkin Auditorium)

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

Contributed talks 3A	Contributed talks 3B	Contributed talks 3C	Contributed talks 3D	Contributed talks 3E
Lumpkin Auditorium	Eastview	Westview	Summit East	
Chair: Maja Sidzińska	Chair: Devora Shapiro	Chair: Erik Weber	Chair: Matthew Lund	
Philosophy & Scientific	Philosophy of	Scientific Methodology III	Science & Society I	
Practice	Neuroscience	(causation & explanation)	The President and the	
Scientific Practice & the	On Generalizing Stipulated	No Cause for Concern:	Hurricane	
Metaphysics of History	Functions	Why even indefinitely	Brandon Boesch (13)	
Adrian Currie (8)	Caitlin Mace (84)	many potential	Science and societal	
Scientific Practice and a	Mapping the Brain - the	confounders do not	problems	
Fourth Dogma of	tyranny of Hubel and	undermine randomized	Julie Mennes (91)	
Empiricism	Wiesel	experiments	Standpoint Theory &	
Joseph Rouse (30)	Stuart Firestein (10)	Raphael Scholl & Fabio	Science Policy: Indigenous	
Searching for the Big	Beyond One-Size-Fits-All:	Molo (88)	Peoples and Wildfire	
Picture in Philosophy of	Reframing Cognitive	From metaphysics to	Management	
Scientific Practice	Variations and Individual	epistemology of causal	Adam Smith (104)	
Beckett Sterner (111)	Differences in Cognitive	production: using		
	Science and Neuroscience	variation to trace		
	Research	transmission of		
	Yi-Hsuan Kao (53)	information		
		Phyllis Illari & Federica		
		Russo (46)		
		Computational		
		Explanations as a Guide to		
		What is Worth Explaining		
		Annabelle Tao (123)		

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

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

14:00 – 16:00 Concur	rent Sessions 5			
Contributed talks 5A	Contributed talks 5B	Contributed talks 5C	Contributed talks 5D	Contributed talks 5E
Lumpkin Auditorium	Eastview	Westview	Summit East	Summit West
Chair: Dana Matthiessen	Chair: Chiara Ambrosio	Chair: Justin Biddle	Chairs: Federica Bocchi &	Chair: Julia Bursten
Symposium:	Miscellaneous	Science Communication	Stefano Canali	Metaphysics of Science
Measurement Across the	Reversing Gene Drives:	A pink lie: How France fell	Symposium: Demanding	Natural Selection,
Life Sciences: Conceptual	Insights from the Art of	in love with a placebo	Evidence and Addressing	Scientific Practice, and the
Issues (35)	Restoration	Juliette Ferry-Danini	Justice at the Intersection	Boundaries of a Biological
Measurement in High-	Monika Piotrowska (37)	(19)	of Health and	Individual
Throughput Biology:	Decoding Sustainability: A	When is it rational to	<b>Environmental Sciences</b>	Caleb Hazelwood (33)
Moving Beyond the	comparison between Life	distrust scientists?	(31)	Pragmatic Idealism
"Objective" and "Data-	Cycle Assessment and the	Sally Geislar & Bennett	Two senses of 'evidence'	Christopher Spano (54)
Driven" Ideals	Institutional Compass	Holman (70)	in Evidence-Based	Mathematics and the
Dana Matthiessen	Maria del Rosario	Sensational cognitive	Conservation	meshing of plans:
Measuring and Extending	Martinez Ordaz, Michèle	claims	Federica Bocchi	Doctrine, Drill, and Shared
Biological Sex	Friend & Ahmad Yaman	David Colaço (82)	Discursive entrenchment:	Agency
Marina DiMarco & Aja	Abdin (97)	What Is Epistemic	genetic epidemiology in	Elliott Hauser (116)
Watkins	Colonialism in the	Intimidation, and What	precision medicine	Reconciling Process and
Measuring Biological	Geosciences: A Closer	Should We Do About It?	Ariane Hanemaayer	Structure: Towards a
Function in Biomechanics	Look at Extractive	Manuela Fernández Pinto	Can Wearables Fix Validity	Process-based Ontic
Alan Love	Practices	& Anna Leuschner (89)	in Evidence-Based	Structural Realism
Measurement of Fitness	Leticia Castillo Brache		Medicine?	Yihan Jiang (22)
and Estimation of its	(114)		Stefano Canali	
Properties	Normative Work for		Are Protected and	
Ruth Shaw	Concept Functions: From		Conserved areas effective	
			for biodiversity	

Scientific Concepts to	conservation? A reflection
Conceptual Engineering	on Methods and tools for
Ingo Brigandt (16)	decision-making
	Helena Alves Pinto

# 16:00 – 16:30 Coffee Break & Poster Session (area around Lumpkin Auditorium)

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

19:00

10.30 10.00 Concur	Territ Sessions o			
Contributed talks 6A	Contributed talks 6B	Contributed talks 6C	Contributed talks 6D	Contributed talks 6E
Lumpkin Auditorium	Eastview	Westview	Summit East	
Chair: Aja Watkins	Chair: Yin Chun Au	Chair: Agnieszka Bolinska	Chair: Alan Love	
Symposium: Philosophy	Science & Society II	Philosophy of Artificial	Philosophy of Biology III	
on Fire. Evidence, Ethics,	(evidence-based policy)	Intelligence II	The Future of the Model	
and Explanations in Fire	Evidence in Evidence-	Artificial Intelligence	Organism Repertoire	
Science and Fire Policy	Based Management:	Benchmarks and	Rachel Ankeny & Sabina	
(39)	Challenging Weber et al.	Degenerating Research	Leonelli (14)	
Regime change, new	(2023)	Catherine Stinson (77)	Model Systems Across the	
tinder, and fire ecology in	Paride del Grosso & Kato	Promises and perils of big	Lab and the Field:	
a novel pyrocene	Van Roey (51)	data: Philosophical	Organismal Samples	
Derek Halm	Counteractive	constraints on chemical	Emma Cavazzoni & Sabina	
Evidence in Fire Science	Mechanisms and Effect	ontologies	Leonelli (23)	
Aja Watkins	Indeterminacy in	Rebekah Duke, Ryan	Specialisation of stem cell	
Climate Change, Wildfires,	Evidence-based Policy	McCoy, Chad Risko & Julia	biology and its downside:	
and Causation	Qianru Wang (36)	Bursten (80)	Three case studies	
Jay Odenbaugh	Using Scientific Knowledge	The rise of the robots:	Yoshinari Yoshida &	
	to Democratize	automation, AI, and the	Sabina Leonelli (113)	
	Authoritarian Societies	future of research		
	Viorel Pâslaru (115)	Stephan Guttinger (96)		

Conference diner (BBQ) in the garden of the Anne Frank Center on campus

## **SATURDAY 18 MAY**

#### 9:15 – 10:45 Concurrent Sessions 7

9:15 - 10:45 Concur	rent sessions /			
Contributed talks 7A	Contributed talks 7B	Contributed talks 7C	Contributed talks 7D	Contributed talks 4E
Lumpkin Auditorium	Eastview	Westview		
Chair: Celso Neto	Chair: Matthew Lund	Chair: Rachel Ankeny	[The talk of <i>Annabelle Tao</i>	
Symposium: Individuality	Science & Values	Philosophy of Medicine III	is moved to Session 3C]	
and Genealogy Across	A Virtue Epistemological	Loving Ignorance, Expert		
Living Systems (61)	Rejection of the Value-	Trustworthiness, and		
Phylogenetic Complexity	Free Ideal	Patient Integration in		
and its Consequences	Sindhuja Bhakthavatsalam	Psychiatric Research		
Maureen Kearney	(76)	Manasa Gopakumar (24)		
Applying the Recursive	Science and Value: An	Toward an Affective		
Account of Individuality	Empirical Analysis	Account of Distrust in		
Matt Haber	Myron Penner, Amanda	Medical Science		
Individuating Human	Nichols & Matthew Billet	Katherine Furman (45)		
Lineages	(56)	A cross-cultural study on		
Celso Neto	Revitalizing the Value-Free	the ethics and moral		
	Ideal of Science: The	psychology of HPV		
	Temporal Role of Values	vaccination		
	Hanyu Ma (20)	Andrea Quint, Phuc		
		Nguyen, María Alejandra		
		Petino Zappala & *Nora		
		Heinzelmann (50)		

## **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

## 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 gynechological 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 Gopakamar (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.