

MAHMOUD T. JALLOH

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dimensionspace.io

ACADEMIC APPOINTMENTS

California Institute of Technology, Einstein Papers Project
Postdoctoral Scholar in History and Philosophy of Science

Pasadena, CA
September 2025 -

St. John's College
Teaching Fellow (Visiting Lecturer)

Santa Fe, NM
July 2023 - June 2025

EDUCATION

University of Southern California
PhD in Philosophy

Los Angeles, CA
August 2023

- **Dissertation:** *Dimensional Analysis: Essays on the Metaphysics and Epistemology of Quantities*
- **Committee:** Porter Williams, Jeff Russell, Alexis Wellwood, James Van Cleve, Barry Schein

Northeastern University
B.S. in Physics and Philosophy

Boston, MA
May 2017

AREAS OF INTEREST

History and Philosophy of Science, Theoretical Philosophy, History of Philosophy, Metascience

PEER REVIEWED ARTICLES

(IN REVERSE ORDER OF ACCEPTANCE)

European Journal for Philosophy of Science

Vol. 14, No. 40

“Calibrating the Theory of Model Mediated Measurement”

August 2024

HOPOS: Journal of the International Society for the History of Philosophy of Science

Vol. 14, No. 2

“Metaphysics and Convention in Dimensional Analysis, 1914-1917”

October 2024

- With Supplement “The Bridgman-Tolman-Warbuton Correspondence on Dimensional Analysis, 1934”

Synthese

Vol. 203, No. 141

“Bridgman and the Normative Independence of Science”

April 2024

- Part of a Special Issue on: *The Legacy of the Value-Free Ideal of Science*

Theoria. An International Journal for Theory, History, and Foundations of Science

Vol. 38, No. 2

“The Nature of the Physical and the Meaning of Physicalism”

October 2023

Oxford Studies in Metaphysics

Volume 14

“The II-Theorem as a Guide to Quantity Symmetries ...”

2025

- Runner-up for the Marc Sanders Prize in Metaphysics

CONFERENCE PROCEEDINGS & INVITED ARTICLES

Minnesota Studies in Philosophy of Science

“Towards a Methodological Conception of the Metaphysics of Science”

In Preparation

Contributions to the 41st International Wittgenstein Symposium

“Reversing the Consequence Argument”

August 2018

BOOK REVIEWS

The British Journal for the History of Science

“Steven French, *A Phenomenological Approach to Quantum Mechanics*”

May 2024

Phenomenological Reviews

“*Phenomenological Approaches to Physics*, H. Wilsche and P. Berghofer (eds.)”

January 2021

Philosophers' Cocoon*[One Paper, One Reviewer: An Easy Amelioration of the Referee Crisis](#)

January 2024

Griffith Observer["Hubble and Huxley: Patriot and Pacifist, Hollywood Stars, Seers of Nebulae"](#)

September 2023

- Joan and Arnold Seidel Science Writing Contest: Honorable Mention

AWARDS AND GRANTS

American Institute of Physics, Center for History of Physics

College Park, MD

Project: Oral Interviews with Philosophers of Physics (\$2500, with Fons Dewulf)

2025

Project: Modeling and Metaphysics with Dimensional Analysis (\$2500)

2022

National Science Foundation

Alexandria, VA

Graduate Research Fellowship: Honorable Mention

Spring 2018

SELECTED TEACHING EXPERIENCE

(* INDICATES CO-TAUGHT AND † INDICATES TA-SHIP.)

St. John's College

2023 - 2025

- The Metaphysics of Space and Time (Aristotle, Descartes, Newton, Leibniz-Clarke, Du Châtelet, Kant)
- Junior Seminar* (Cervantes, Descartes, Pascal, Milton, Hobbes, Spinoza, Leibniz, Hume, Kant, Smith)
- Junior Laboratory (Galileo, Huygens, Newton, Young, Faraday, Maxwell)
- Sophomore Mathematics (Ptolemy, Copernicus, Kepler, Apollonius, Descartes, Pascal)
- Freshman Mathematics (Euclid)
- Freshman Laboratory (Aristotle, Goethe, Harvey, Driesch, Pascal, Lavoisier, Dalton)
- Freshman Seminar* (Homer, Plato, Aristotle, Sophocles, Aristophanes, Thucydides, Herodotus)
- Summer Academy (Aristotle, Austen, Plutarch, Aeschylus, Heidegger, Shelley) [Short Courses for High School Students]
- Science Institute:* Beyond Numbers: Set-Theory; Du Châtelet's *Foundations of Physics* [Short Seminar and Experimental Courses for Non-Degree Students]
- Summer Classics:* An Introduction to C. S. Peirce [Short Seminar for Non-Degree Students]

University of Southern California

2018 - 2021

- Science, Knowledge and Objectivity†
- Philosophy, Politics, and Economics in Europe: From the Renaissance to the Enlightenment†
- Ideas on Trial† (Socrates, Joan of Arc, Salem, Galileo, Scopes, Nuremberg, Eichmann)
- The Meaning of Life†

SELECTED PRESENTATIONS

(* INDICATES INVITED MATERIAL.)

St. John's College, Santa Fe

Santa Fe, NM

"Maxwell, Peirce, and Planck: The Quest for Absolute Measurement & Abs. Reality"

June 2025

Notre Dame Biennial History of Astronomy Workshop

Notre Dame, IN

"Hubble and Huxley: Hollywood Stars and Empiricists"

June 2025

Philosophy of Science: Past, Present, and Future

Minneapolis, MN

"Two Models for the Metaphysics of Science"

October 2024

British Society for the Philosophy of Science

York, UK

"Is Dimensionlessness an Invariant Property?"

July 2024

University of New Mexico, Philosophy Department*

Albuquerque, NM

"The Constants of Nature"

November 2023

The Gravitational Constant, from the Local to the Universal

St. Andrews, SCT

"Dynamical Symmetries and the Values of the Constants: A Historical Episode"

April 2023

Integrated History and Philosophy of Science 9 “Metaphysics and Convention in Dimensional Analysis, 1914-1917”	Columbia, SC March 2023
Euro-American Migration and the Development of Postwar Philosophy “The Roots of Operationalism in Dimensional Analysis”	Tilburg, NL August 2022
Measurement at the Crossroads: Measuring and Modeling “Measurement Dimensions: On the Common Quantity Assumption”	Milan, IT July 2022
HOPOS “The Foundations of Dimensional Analysis and the Metaphysics of Quantity Dimensions”	Irvine, CA June 2022
SoCal Metaphysics Network Graduate Workshop* 9th Annual Conference of the SSHAP* “Structuralism in the <i>Tractatus</i> ”	Irvine, CA Vienna, AT April 2022, July 2021
2nd Young Scholars Pragmatism Conference: Inquiry, Science, Truth “Scientific Polysemy, Semantic Detoxification, and Sophisticated Operationalism”	Cambridge, UK October 2021
Novembertagung, Axiomatics: Ancient and Contemporary Perspectives “Wilson’s ‘Semantic Detoxification’ and Conceptual Change as Axiomatic Change”	Berlin, DE November 2020
41st International Wittgenstein Symposium “Reversing the Consequence Argument”	Kirchberg am Wechsel, AT August 2018

SERVICE

(Co-)Organizer:	SJC Science Institute Conversations/Lectures 2024, 2025; SJC Summer Academy 2025; BSPS 2024 Symposium on <i>Establishing the Philosophy of Dimensions</i> ; USC/UCLA Graduate Conference 2020
Chair:	&HPS2025; PSA 2022; Pacific APA 2022; USC/UCLA Graduate Conference 2021
Conference Referee:	USC/UCLA Graduate Conference 2018-2023; NASSLLI 2022
Journal & Book Referee:	<i>Journal for General Philosophy of Science</i> , <i>Ratio</i> , <i>Philosophy of Science</i> <i>Linguistics & Philosophy</i> , <i>Foundations of Physics</i> , <i>Cambridge Elements in the Philosophy of Physics</i>
Thesis Advising:	On Kant (Senior, 2025); On Hegel (Senior, 2025) On Anselm (Senior, 2025); On Paracelsus (Senior, 2025)
Thesis Examinations:	On Wittgenstein & Einstein (Senior, 2025) On Euripides (Senior 2025); On Pascal (Senior, 2025, Chair); On Nietzsche (Senior, 2025) On Gödel & Cohen (Senior, 2025, Chair); On Aristotle (Senior, 2024); On Bergson (Masters, 2024, Chair)

ADDITIONAL EDUCATION & PROFESSIONAL DEVELOPMENT

Max Planck Institute for Mathematics in the Sciences Summer School on the History of Space in Mathematics and Physics	Leipzig, DE July 2023
Rutgers Center for the Philosophy of Religion God and Fine-Tuning Summer School	New Brunswick, NJ July 2023
University of Wuppertal <i>Particle Physics at the Crossroads</i> , Epistemology of the LHC	Wuppertal, DE July 2018
University of Split <i>The Chimera of Entropy</i> , Seventh Philosophy and Physics Summer School	Split, HR July 2018
Ludwig Maximilians Universität, Munich Center for Mathematical Philosophy Visiting Student	Munich, DE Fall 2016