

Eddy Keming Chen

CURRICULUM VITAE

CONTACT INFORMATION	Department of Philosophy MC 0119 University of California, San Diego 9500 Gilman Drive, La Jolla, CA 92093-0119	+1 (858) 534 9281 eddykemingchen@ucsd.edu
WEBSITE	www.eddykemingchen.net	
SPECIALIZATION (AOS)	Philosophy of AI; Philosophy of Physics; Philosophy of Science; Metaphysics.	
COMPETENCE (AOC)	Chinese Philosophy; Decision Theory; Formal Epistemology; Philosophy of Mathematics; Philosophy of Religion.	
EMPLOYMENT	Associate Professor, with tenure and joint appointment between Halicioğlu Data Science Institute and Department of Philosophy, University of California, San Diego Jun 2026-present Associate Professor, with tenure, Department of Philosophy, University of California, San Diego Jul 2023-Jun 2026 Assistant Professor, Department of Philosophy, University of California, San Diego Jul 2019-Jun 2023	
OTHER AFFILIATIONS	Affiliated Faculty, Halicioğlu Data Science Institute, UC San Diego Feb 2026-Jun 2026 Affiliated Faculty, Chinese Studies Program, UC San Diego Jan 2020-present Associate Editor, <i>Foundations of Physics</i> Jul 2020-Jun 2024 Fellow, John Bell Institute for the Foundations of Physics Aug 2018-present	
EDUCATION	Rutgers University, New Brunswick Ph.D., Philosophy, May 2019 • Thesis: <i>Essays on the Metaphysics of Quantum Mechanics</i> • Committee: Barry Loewer (co-chair), David Albert (co-chair), Sheldon Goldstein (mathematics), Tim Maudlin (external), Jill North, Jonathan Schaffer, Ted Sider M.Sc., Mathematics (Mathematical Physics), May 2019 • Thesis: <i>Quantum States in a Time-Asymmetric Universe</i> • Committee: Sheldon Goldstein (chair), Michael Kiessling, Joel Lebowitz, Roderich Tumulka Graduate Certificate in Cognitive Science, Dec 2018 • Thesis: <i>Comparativism about Mental Qualities</i> • Advisor: Matthew Stone Calvin College B.S., Mathematics (Major), Physics (Minor), May 2013 B.A., Philosophy (Highest Honors), May 2013 • Thesis: <i>Singular Propositions, Truth-In/At, and Modality De Re/De Dicto</i> • Supervisors: Alvin Plantinga and Stephen Wykstra National University of Singapore Enrolled in Mathematics and Physics Undergraduate Modules, 2009-2010	

BOOK

1. *Laws of Physics*
Cambridge University Press, 2024

ARTICLES

1. “Does AI Already Have Human-Level Intelligence? The Evidence is Clear” (with Mikhail Belkin, Leon Bergen, and David Danks)
Nature, 2026
Featured in *UC San Diego Today*
2. “Typical Quantum States of the Universe are Observationally Indistinguishable” (with Roderich Tumulka)
The British Journal for the Philosophy of Science, forthcoming
Featured in *New Scientist*
3. “Algorithmic Randomness, Exchangeability, and the Principal Principle” (with Jeffrey Barrett) [[arXiv:2510.24054](https://arxiv.org/abs/2510.24054)]
The British Journal for the Philosophy of Science, forthcoming
4. “Algorithmic Randomness and Probabilistic Laws” (with Jeffrey A. Barrett)
The British Journal for the Philosophy of Science, forthcoming
5. “The Simplicity of Physical Laws”
Noûs, 2025
6. “Decoherence, Branching, and the Born Rule in a Mixed-State Everettian Multiverse” (with Eugene Chua)
Synthese, 2025
7. “Evil and the Quantum Multiverse” (with Daniel Rubio)
The Australasian Journal of Philosophy, 2025
8. “Strong Determinism”
Philosophers’ Imprint, 2024
Featured in *Scientific American*
9. “The Decoherent Arrow of Time and the Entanglement Past Hypothesis” (with Jim Al-Khalili)
Foundations of Physics, 2024
Featured in *New Scientist*
10. “The Preordained Quantum Universe”
Nature, 2023
2024 APA Public Philosophy Op-Ed Prize
Featured in *Scientific American*
11. “Fundamental Nomic Vagueness”
The Philosophical Review, 2022.
Selected by *The Philosopher’s Annual* as “one of the ten best articles in philosophy from 2022”
12. “From Time Asymmetry to Quantum Entanglement: The Humean Unification”
Noûs, 2020 [2022].
13. “Time’s Arrow and Self-Locating Probability”
Philosophy and Phenomenological Research, 2021 [2022]
14. “Uniform Probability Distribution over All Density Matrices” (with Roderich Tumulka)
Quantum Studies: Mathematics and Foundations, 2022

15. “Quantum Mechanics in a Time-Asymmetric Universe: On the Nature of the Initial Quantum State”
The British Journal for the Philosophy of Science, 2018 [2021]
Awarded the 2021 BJPS Popper Prize, as “the article judged to be the best published in that year’s volume of the Journal, as determined by the Editors-in-Chief and the BSPS Committee”
16. “Surreal Decisions” (with Daniel Rubio)
Philosophy and Phenomenological Research, 2018 [2020]
17. “Realism about the Wave Function”
Philosophy Compass, 2019
18. “Our Fundamental Physical Space: An Essay on the Metaphysics of the Wave Function”
The Journal of Philosophy, 2017
19. “Great Expectations: Introducing Surreal Decision Theory” (with Daniel Rubio) Wiebe van der Hoek, Wesley H. Holliday, Wen-fang Wang (eds.), *Proceedings of the 5th International Workshop on Logic, Rationality, and Interaction (LORI-V)*, Volume LNCS 9394, pp. 53–63. Springer-Verlag Berlin Heidelberg, 2015.

CHAPTERS IN
EDITED VOLUMES

1. “Mental Comparativism: An Intrinsic Account of Mental Qualities”
Branden Fitelson, Jeremiah Joven Joaquin, and Weng Hong Tang (eds.), *Conditionals, Probability and Decision: Essays in Honour of Alan Hájek*, Springer, forthcoming
2. “Density Matrix Realism”
Michael Cuffaro and Stephan Hartmann (eds.), *The Open Systems View: Physics, Metaphysics and Methodology*, Oxford University Press, forthcoming
3. “The Wentaculus: Density Matrix Realism Meets the Arrow of Time”
Angelo Bassi, Sheldon Goldstein, Roderich Tumulka, and Nino Zanghì (eds.), *Physics and the Nature of Reality: Essays in Memory of Detlef Dürr*, Springer, 2024
4. “The Past Hypothesis and the Nature of Physical Laws”
Barry Loewer, Eric Winsberg, and Brad Weslake (eds.), *Time’s Arrows and the Probability Structure of the World*, Harvard University Press, 2024
5. “Governing without a Fundamental Direction of Time: Minimal Primitivism about Laws of Nature” (with Sheldon Goldstein)
Yemima Ben-Menahem (ed.), *Rethinking the Concept of Law of Nature*, Springer, 2022
6. “Bell’s Theorem, Quantum Probabilities, and Superdeterminism”
Eleanor Knox and Alastair Wilson (eds.) *The Routledge Companion to the Philosophy of Physics*, 2021
7. “The Cosmic Void”
Sara Bernstein and Tyron Goldschmidt (eds.), *Non-Being: New Essays on the Metaphysics of Non-Existence*, Oxford University Press, 2021.
8. “Time’s Arrow in a Quantum Universe: On the Status of Statistical Mechanical Probabilities”
Valia Allori (ed.), *Statistical Mechanics and Scientific Explanation: Determinism, Indeterminism and Laws of Nature*, World Scientific, 2020

BOOK REVIEW	1. Richard Healey, <i>The Quantum Revolution in Philosophy</i> <i>The Philosophical Review</i>, 129 (2): 302-308, 2020.
UNDER REVIEW	1. “The Intrinsic Structure of Quantum Mechanics” [arXiv:1810.06551]
PAPERS IN PREPARATION	1. “Laws of Nature,” commissioned by <i>Stanford Encyclopedia of Philosophy</i> 2. “The Distribution Postulate in Algorithmic Bohmian Mechanics” (with Jeffrey Barrett and Josiah Lopez-Wild) 3. “Explanation and Constraint” (with Emily Adlam) 4. “Humean Typicality” (with Sheldon Goldstein, Dustin Lazarovici, and Isaac Wilhelm) 5. “Non-Humean Typicality” (with Isaac Wilhelm) 6. “Comparativism about Mental Qualities” 7. “Surreal Decision Theory for Infinite State Spaces” (with Daniel Rubio) 8. “A Hybrid Voluntarist Interpretation of Xunzi”
PUBLIC ENGAGEMENT	1. Podcast on laws of nature: “The Debate That Divides Physics: Is the Universe a Coincidence or a Dictatorship?” Theories of Everything with Curt Jaimungal, June 2025 2. Interview about quantum physics, strong determinism, and free will on <i>Mornings with Simi</i>, a radio show in Vancouver, BC, Canada, May 2024 3. “The Wentaculus, Time’s Arrow, Laws and Vagueness” Interview with Richard Marshall in the End Times Series at 3:16AM 4. “The Quantum Wave Function Isn’t Real” (based on “Quantum Mechanics in a Time-Asymmetric Universe: On the Nature of the Initial Quantum State”) The Institute of Art and Ideas (IAITV), April 29, 2022 5. “Welcome to the Fuzzy-Verse” (based on “Nomic Vagueness”) Featured on the cover as “The Flaw at the Heart of Reality: Why precise mathematical laws can never fully explain the universe” <i>New Scientist</i>, Issue 3298, Sep 5, 2020 [Penultimate] [Magazine] 6. (With Isaac Wilhelm) “From Ants to Quantum Non-Locality” <i>The Daily Ant</i>, July 2017 [Link]
GRANTS	1. Member of the SoCal Quantum Foundations Hub, funded by a \$2.5 million grant from the John Templeton Foundation, with \$ 325,000 subaward to UCSD, Sep 2024-Sep 2027 2. Member of the “Life on the Edge” project, funded by a \$3 million grant from the John Templeton Foundation, with \$ 88,000 subaward to UCSD, Dec 2021-Jun 2024 3. UCSD Academic Senate Research Grant, 2021, 22, 23, 24, 25, 26

SELECTED HONORS AND AWARDS	Winner of the APA Public Philosophy Op-Ed Contest	2024
	Honorable Mention by the PSA Outreach and Engagement Committee	2024
	<i>The Philosopher's Annual</i> of 2022	2023
	The 2021 <i>BJPS</i> Popper Prize	2022
Rutgers University		
	• Harvey Waterman Medal of Excellence	2019
	• Presidential Fellowship for Doctoral Studies	2013, 14, 17
	• Mellon Fellowship for Summer Research	2017
	• SCP-Templeton Graduate Fellowship for Cross Training in Physics	2017-18
	• Book prize for the best presentation at the Sydney University Winter School on Physics and Philosophy of Time	2017
	• APA Graduate Student Travel Stipend	2016
	• Rutgers Graduate School Travel Stipend	2014, 15, 16
	• Summer Special Study Fellowship	2015, 16
Calvin College		
	• Presidential Scholarship	2010-13
	• William Rinck Memorial Prize for Best Graduating Senior in Mathematics	2013
	• Van Der Woude Award in Science Division	2011, 12
	• Bouwsma Prize for Best Paper in Philosophy	2013
	• Bouwsma Award for Excellence in Philosophy	2011
	• Konyndyk Scholarship for Excellence in Philosophy	2011
National University of Singapore		
	• SM2-GLC Undergraduate Full Scholarship, Ministry of Education, Singapore	2007-10
	• The University Scholars Program	2009-10
	• Valedictorian for SM2-GLC Scholarship Recipients	2009
VISITING FELLOWSHIPS	Australian National University	Jun-Jul 2017
	Research School of Social Sciences, Faculty Sponsor: Alan Hájek	
	University of Southern California	Mar-Apr 2017
	Department of Philosophy, Supervisor: David Wallace	
	University of Bristol	Sep 2016
	Department of Philosophy, Faculty Sponsor: Richard Pettigrew	
SELECTED PRESENTATIONS	University of Oxford	Jan-Apr 2012
	Undergraduate Visiting Student	
	The Case for AGI: Turing's Vision at 75	
	• Graduate seminar on NeuroAI, Salk Institute for Biological Studies	Mar 2026
	• UCSD Osher Lifelong Learning Institute	Aug 2026
	• University of Bern	Sep 2026
AI Meets Philosophy of Science: Towards a Foundation of AI		
	• University of Pittsburgh	Oct 2026
	• University of Waterloo Quantum Club	Jun 2026
	• Philosophy and Physics Colloquium, LMU Munich	May 2026
	• Boston Network of History and Philosophy of Physics	Apr 2026
	• Halicioğlu Data Science Institute seminar series, UC San Diego	Mar 2026
	• University of Toronto	Feb 2026

- University of Arizona Feb 2026
- Arizona State University Jan 2026
- National University of Singapore Jul 2025
- University of Hong Kong Mar 2025
- Graduate seminar on the mathematics of machine learning, Halıcıoğlu Data Science Institute, UC San Diego Mar 2025

Algorithmic Randomness, Exchangeability, and the Principal Principle

- University of Bern Sep 2026
- Jagiellonian University Aug 2026
- Chapman University Sep 2025
- University of Tokyo Jun 2025
- UCSD Data Science and Bioinformatics Division Apr 2025
- Stanford Logic Group Mar 2025
- Berkeley Logic Group Mar 2025
- UCSD Philosophy Department Mar 2025

Density Matrix Realism

- Templeton SoCal Collaboration Annual Meeting Mar 2025
- Seminar on the philosophy of quantum mechanics, CalTech Feb 2025
- SoCal Quantum Foundations Hub online meeting Feb 2025

Typical Quantum States of the Universe are Observationally Indistinguishable

- Warsaw University of Technology Sep 2026
- Time in Quantum Theory (TiQT) Conference May 2026
- Centre for Quantum Information and Quantum Control (CQIQC) Feb 2026
- Southern California Philosophy of Physics Group Oct 2025
- Foundations of Thermodynamics Workshop, NTU Jul 2025
- Metro Area Philosophy of Science Group, New York Apr 2025
- COSMOS Online Seminar Series, Italy Apr 2025
- Joint March & April Meeting, American Physical Society Mar 2025
- UCSD Philosophy of Physics Group Feb 2025
- Chapman University Dec 2024
- Mathematical Physics Seminar, University of Tübingen Nov 2024
- CalTech Philosophy of Science Group Oct 2024

Quantum Foundations Meets Quantum Thermodynamics

- Quantum Thermodynamics Conference, University of Maryland Aug 2024

The Decoherent Arrow of Time and the Entanglement Past Hypothesis

- Decoherence Workshop, University of Oxford Jul 2024
- Blue Sky Thinking Workshop, University of Surrey Jul 2024

Lecture Series on Laws of Nature

- Wuhan University (five lectures) Sep 2023

Algorithmic Randomness and Probabilistic Laws

- Laws of Nature Online Lecture Series Mar 2024
- UBC Okanagan Mar 2024
- Pitt / CMU Formal Epistemology Workshop Oct 2023
- Lingnan University Sep 2023
- Peking University Aug 2023
- Foundations of Probability Seminar, NYC Apr 2023

The Simplicity of Physical Laws

- Baylor University Sep 2024
- Laws and Quantities Workshop, University of Glasgow Jun 2024
- Workshop on Laws of Nature, Syracuse University Jun 2023

- Pacific APA symposium presentation Apr 2023
- Colloquium, Simon Fraser University Mar 2023
- Harvard Foundations of Physics Seminar Dec 2022
- CalTech Philosophy of Physics Group Oct 2022
- University of Western Ontario Philosophy of Physics Group Oct 2022

Strong Determinism

- Cornell University Nov 2025
- Mathematics and Statistics Colloquium, Calvin University Dec 2024
- Reading group, King's College London Jul 2024
- Colloquium, Chinese University of Hong Kong Sep 2023
- Colloquium, NYU Shanghai Aug 2023
- Humeanism Workshop, Johns Hopkins University Apr 2023
- Colloquium, University of British Columbia Mar 2023
- Colloquium, UCLA Mar 2023
- Tel Aviv Conference on the Many-Worlds Interpretation Oct 2022
- Colloquium, UC Riverside May 2022
- Colloquium, Logic and Philosophy of Science, UC Irvine May 2022
- CalTech Philosophy of Physics Group Apr 2022
- CLE Permanent Seminar in Metaphysics, University of Campinas Apr 2022
- UCSD Metaphysics Reading Group Apr 2022
- Quantum Foundations Seminar, Surrey University Oct 2021
- California Quantum Information Network Sep 2021

Governing without a Fundamental Direction of Time: Minimal Primitivism about Laws of Nature

- CLE Permanent Seminar in Metaphysics, University of Campinas Jul 2022
- Warsaw Spacetime Colloquium Jun 2022
- Philosophy of Time Association, Pacific APA (cancelled) Apr 2022
- Graduate Seminar in Philosophy of Science, UIUC Oct 2021
- Research Group in Metaphysics (*eidōs*) and the Geneva Symmetry Group Oct 2021
- Metro Area Philosophy of Science Group (MAPS) Oct 2021
- CalTech Philosophy of Physics Group Oct 2021
- Metaphysics Reading Group, Rutgers University Oct 2021

Nomic Vagueness

- National University of Singapore, Honors College Sep 2025
- Colloquium, The University of Hong Kong Sep 2023
- 27th Biennial Meeting of the Philosophy of Science Association Nov 2021
- Pontifical University of St. Thomas Aquinas, Italy Jan 2021
- Harvard Foundations of Physics Mini-Workshop July 2020
- CalTech philosophy of physics reading group May 2020
- Delta 13 Workshop on Logic May 2020
- University of Illinois, Chicago Feb 2020
- Foundations of Physics Conference, Columbia University Nov 2019
- Early Career Philosophy of Physics Workshop, CCNY May 2019

The Wentaculus: Density Matrix Realism Meets the Arrow of Time

- Lisbon-Warsaw Reading Group in the Philosophy of Physics Nov 2023
- Metro Area Philosophy of Science Group Apr 2023
- Graduate Seminar in Philosophy of Physics, Rutgers University Apr 2022
- Philosophy of Physics Research Seminars, University of Oxford Jan 2021
- Density Matrix Realism Workshop, University of Birmingham Nov 2020

Boltzmannian Quantum Statistical Mechanics

- Black Forest Summer Conference on Foundations of Physics (Cancelled) Jul 2020

Varieties of Intrinsicity and the Hardest Road to Nominalism	
• <i>Science Without Numbers</i> : 40 years later	Nov 2020
The Cosmic Void and Non-Fundamental Facts	
• “Defining Nothingness” Conference, HSE University Moscow	Jan 2022
• APA Symposium “Metaphysics Without Ontology”	Feb 2020
From Time Asymmetry to Quantum Entanglement: The Humean Unification	
• Humean Laws Workshop	June 2020
Time’s Arrow in a Quantum Universe	
• Mathematical Physics Seminar, University of Tübingen	Mar 2019
• University of California, San Diego	Feb 2019
• University of Wisconsin, Madison	Jan 2019
• Tsinghua University (commented by Shan Gao)	Jan 2019
• Wuhan University	Jan 2019
• HUST (commented by Wan Xiaolong)	Jan 2019
• Cornell University	Feb 2018
• University of Wisconsin, Milwaukee	Feb 2018
• Philosophy of Cosmology Session, German Physical Society, Munich	Mar 2019
• Philosophy of Science Association, Seattle	Oct 2018
• Summer School on Entropy, Split	Jul 2018
• Western Ontario Philosophy of Logic, Mathematics, and Physics Graduate Student Conference	Jun 2018
• Rotman Summer Institute in Philosophy of Cosmology	Jun 2018
Time’s Arrow Without Statistical Mechanical Probabilities	
• Philosophy of Time Association, Central APA, Denver	Feb 2019
• Rutgers Seminar on the Foundations of Probability	Nov 2018
Comparativism about the Mind: From Metaphysics of Quantities to the Nature of Mentality	
• Rutgers-Bochum Workshop in Philosophy & Cognitive Science	Mar 2019
• 24th World Congress of Philosophy, Beijing	Aug 2018
An Intrinsic Theory of Quantum Mechanics: Progress in Field’s Nominalistic Program	
• UC Irvine, Logic and Philosophy of Science (LPS)	Apr 2017
• Bristol Center for Science and Philosophy	Sep 2016
• Pacific APA symposium presentation (commented by Thomas Barrett and Rhys Borchert)	Mar 2018
• 3rd Annual Meeting of the Society for the Metaphysics of Science (SMS), (commented by David Glick)	Oct 2017
• 18th UK and European Conference on Foundations of Physics, London	Jul 2016
• 4th Black Forest Philosophy of Physics Summer School, Saig	Jul 2016
Our Fundamental Physical Space: An Essay on the Metaphysics of the Wavefunction	
• University of Illinois, Chicago	Mar 2016
• Central APA symposium presentation (commented by Nick Huggett)	Mar 2016
• 1st Annual Meeting of the Society for the Metaphysics of Science (SMS), (commented by Vishnya Maudlin)	Oct 2015
• 3rd Black Forest Philosophy of Physics Summer School, Saig	Jul 2015
The Best Summary of the Quantum World: The Universal Wavefunction as a Humean Law	
• Tsinghua University Philosophy of Science Colloquium	Dec 2015

- 15th Congress of Logic, Methodology, and Philosophy of Science, Aug 2015
- 2nd Black Forest Philosophy of Physics Summer School, Saig Jul 2014
- Princeton Workshop on Technical Philosophy of Physics Mar 2014

Our Knowledge of the Past: Some Puzzles about Time’s Arrow and Self-Locating Probabilities

- 3rd Boulder Workshop in Formal Value Theory Mar 2018
- The College of William and Mary Jan 2018
- Wuhan University Dec 2017
- CalTech, History and Philosophy of Science Series Apr 2017
- University of Bristol Sep 2016
- Sydney University Winter School on Physics and Philosophy of Time Jul 2017
- Winner of the book prize for the best presentation**
- Australasian Association of Philosophy (AAP) Annual Meeting, Jul 2017
- Time and Causality in the Sciences Conference (TaCitS), Jun 2017
- UC San Diego, Philosophy Apr 2017
- UC Riverside Workshop on Epistemology and Philosophy of Mind Mar 2017

Space-Time Emergence: A Representational Theory

- Philosophy of Cosmology Workshop, CUNY Graduate Center May 2017

Great Expectations: Introducing Surreal Decision Theory (co-authored with Daniel Rubio)

- Peking University Dec 2015
- Princeton Workshop on Intrinsic Values Nov 2015
- ([Sanders Foundation Website Video Link](#))
- 5th International Congress on Logic, Rationality, and Interaction Oct 2015
- 15th Congress of Logic, Methodology, and Philosophy of Science Aug 2015
- Pittsburgh-CMU Graduate Conference in Philosophy Mar 2015

Pascal’s Wager Meets Surreal Numbers (co-authored with Daniel Rubio)

- Work-in-Progress reading group, Bristol University Sep 2016
- Xiamen University Philosophy Department May 2016

A Xunzian Puzzle about Meta-Ethics

- Skype lecture in Jing Hu’s seminar on Chinese Philosophy Mar 2016
- at Washington and Lee University

What is Analytic Philosophy?

- Department of Electrical Engineering, Wuhan University Jan 2016

Singular Propositions, Ontological Dependence, and the ‘Truth-in/-at’ Distinction

- Calvin College Philosophy Symposium Nov 2012

Quantum Modeling of Recollision Excitation and Non-Sequential Double Ionization of Helium

- Western Michigan Regional Undergraduate Science Research Conference Oct 2012
- Van Andel Institute, Grand Rapids, Michigan
- Calvin College Physics Departmental Seminar Sep 2012

COMMENTS

Alan Hájek’s “The Revenge of Pascal, Petersburg, Pasadena, and Paul”

- Workshop on Cognitive Values, CU Boulder Mar 2017

Ned Hall’s “Causation and the Aim of Inquiry”

- Rutgers Philosophy Department Colloquium Feb 2016

Niels Martens’s “Comparativism about Mass and the Initial Variable Problem”

- Metaphysics of Quantities Conference, NYU May 2015

Thomas Senor’s “Disagreement, Evidence, and Perception”

- Meiguo Metaphysics Mayhem, Peking University Jun 2012

TEACHING

Undergraduate Courses at University of California, San Diego

- PHIL 158 - Topics in Chinese Philosophy Fall 2020,21,25
- PHIL 120 - Symbolic Logic Fall 2020, 24
- PHIL 130 - Metaphysics Spring 2020,21; Winter 2023
- PHIL 146 - Philosophy of Physics Fall 2019,21,23
- PHIL 25 - Science, Philosophy, and the Big Questions Fall 2025

Graduate Courses at University of California, San Diego

- PHIL 285 - Core Seminar in Philosophy of Science: Arrows of Time Spring 2020
- PHIL 245 - Core Seminar in Philosophy of Science: Laws of Nature Spring 2021
- PHIL 245 - Philosophy of Science: Laws and Randomness Fall 2023
- PHIL 230 - Metaphysics: Free Will and Determinism (with Manuel Vargas) Fall 2024

At Rutgers University, New Brunswick

- PHIL 319 - Philosophy of Mathematics Fall 2016
- PHIL 475 - Chinese Philosophy Spring 2016

Co-Chair (with Harry Crane and Dimitris Tsementzis) Fall 2016 - Spring 2018

PHIL 603 - Graduate Seminar on the Foundations of Probability

Joint Seminar of Philosophy and Statistics Depts., Rutgers University

Graduate Supervision:

- JiMin Kwon (UCSD), PhD dissertation committee
- Joseph Martinez (UCSD), PhD dissertation committee
- Eugene Chua (UCSD), third-year paper committee and PhD dissertation committee
- Shelly Yiran Shi (UCSD), third-year paper committee and PhD dissertation committee
- Joseph O’Brien (UCSD), PhD dissertation committee
- Weixin Cai (UCSD), first-year advisor
- Jae Eniraiyetan (UCSD), ‘Laws of Nature and Counterfactuals,’ winter 2025
- Patricio Avila Cardenas (UCSD), ‘Nominalistic Physics,’ winter 2025
- Luca Molinari (Scuola Normale Superiore), Master’s thesis, 2024
- Joseph O’Brien (UCSD), ‘Algorithmic Randomness,’ independent study, fall 2024
- Weixin Cai (UCSD), ‘Simplicity,’ independent study, summer 2022
- Andy Sin (UCSD), ‘Quantum Humeanism,’ independent study, fall 2022
- Bosco Garcia (UCSD), first-year advisor

Academic Visitors:

- Luca Molinari (Scuola Normale Superiore), fall 2024
- Gabriele Cafiero (Scuola Normale Superiore), fall 2024
- Hanyu Liu (Peking University), winter, spring, fall 2024

Undergraduate supervision:

- Alice Ye, Yao Yu, and Enming Zhang (UCSD), Chinese Philosophy, independent study, winter 2025
- Adam Brimmer (UCSD), Foundations of Quantum Mechanics, honors thesis, fall 2024
- Cheng Chang (UCSD): Determinism, Triton Research and Experiential Learning Scholars (TRELS), fall 2021

Greyson Sims (UCSD): Philosophy of Quantum Mechanics, independent study, fall 2020

SERVICE

Contributions to Academic Community

- Area Chair in philosophy of physics, 2026 Philosophy of Science Association biennial meeting 2025-26
- Organizer, mini-workshop on quantum foundations at UCSD May 2025
- Associate editor, *Foundations of Physics* Jul 2020-Jun 2024
- Program committee, Philosophy of Science Association biennial meeting 2024
- Program committee, 21st European Conference on Foundations of Physics 2023
- Organizer, UCSD Philosophy of Logic Reading Group 2023-present
- Co-Organizer, conference “Arrows of Time” at UCSD 2023
- Chair of the program committee, Society for the Metaphysics of Science 2022
- Program committee, Society for the Metaphysics of Science 2021
- Co-Organizer, conference “*Science Without Numbers*, 40 Years Later” Nov 2020
- Co-Organizer, UCSD Philosophy of Physics Reading Group 2020-present
- Co-Organizer, Rutgers-Columbia Workshop on Quantum Field Theories May 2018
- Organizer, Rutgers Workshop on Structural Realism May 2017
- Co-Organizer, Rutgers Workshop on Multiverse, Theodicy, and Fine-Tuning Jun 2016
- Organizer, Metro Area Philosophy of Science Lecture Series (MAPS) 2015-17
- Organizer, Rutgers Philosophy of Science Reading Group 2014-16
- Co-organizer, Rutgers Metaphysics Reading Group 2015-16
- Rutgers Philosophy Department Colloquium Committee 2014-16

Contributions to Diversity and University Service

- Representative of UCSD School of Arts and Humanities, Graduate Education and Postdoctoral Affairs Doctoral/MFA Commencement Jun 2023, 26
- Faculty panel, Arts and Humanities Dean’s Workshop on AI Apr 2026
- UCSD Holistic Teaching & Mentoring Evaluation Oversight Committee 2024-26
- UCSD Academic Integrity Committee 2024-26
- Philosophy Department Ad Hoc Committee on Teaching Portfolios Feb 2025
- Panelist, Research Funding Workshop, UCSD New Faculty Academy Jan 2025
- Guest lecture on strong determinism at Osher Lifelong Learning Program Jan 2025
- Guest lecture on free will and determinism at SDSU criminology class Sep 2024
- Summer Assistance for Grasping the Essentials of Philosophy (SAGE), faculty panel, UCSD Philosophy Department Aug 2024
- Organizer of the UCSD philosophy department PhD program professionalization workshop series 2024, 25, 26
- Judge of the UCSD philosophy department PhD program annual essay contest 2024
- Organizer of the UCSD philosophy department colloquium series 2022-24
- Reviewer for Summer COSMOS high school science program at UCSD Jul 2023, 24, 25
- Guest lecture on Confucianism at Grossmont College Nov 2022
- Instructor for the Graduate School Application Workshop, UCSD Summer Program for the Advancement of Women in Philosophy (SPAWP) Jul 2022
- Advisory board, UCSD Summer Program for the Advancement of Women in Philosophy (SPAWP) 2021-22
- Graduate admissions subcommittee in logic and philosophy of science 2020-22
- Designer of a DEI version of a class on Chinese Philosophy Apr 2021
- Designer and grader of graduate student logic exemption test Sep 2020, 2024
- Reviewer, undergraduate honors thesis in philosophy of physics Apr 2020
- Mock interviewer for job-market candidates 2020, 2021, 2022

- Participation in the design and proposal of the Chinese philosophy class Nov 2019
- Panelist, admissions committee, and advisory board,
Summer Program for Women in Philosophy, UCSD 2019-21
- Faculty speaker, Preparing Accomplished Transfers to the Humanities
(PATH) Program, San Diego Community College District Dec 2019
- Commentator-at-large, New York-China Epistemology Conference Oct 2018
- Rutgers Philosophy Department Climate Committee 2016-17
- Graduate Panelist, Rutgers Summer Institute for Diversity in Philosophy Jul 2017
- Rapporteur, 3rd and 4th Rutgers Workshops on Chinese Philosophy 2016, 2017
- Participant, Muslim-Jewish-Christian Interfaith Dialogue
on Providence and Randomness May 2016
- Discussion Leader, Rutgers University International TA Orientation Aug 2016

REFEREE

- *Neural Information Processing Systems (NeurIPS) 2026*
- *Scientific Reports* (×2)
- *Nature Computational Science*
- *Communications Psychology*
- *Statistical Science*
- *Australasian Journal of Philosophy* (×5)
- *British Journal for the Philosophy of Science* (×13)
- *Erkenntnis* (×6)
- *Ergo* (×3)
- *European Journal for Philosophy of Science* (×4)
- *Foundations of Physics*
- *Internet Encyclopedia of Philosophy*
- *Journal of the American Philosophical Association*
- *Journal for General Philosophy of Science* (×4)
- *Journal of Philosophy*
- *Mind* (×3)
- *Noûs* (×3)
- *Pacific Philosophical Quarterly*
- *Philosophical Review* (×2)
- *Philosophical Quarterly* (×2)
- *Philosophy and Phenomenological Research*
- *Philosophers' Imprint*
- *Philosophia Mathematica*
- *Philosophical Studies* (×6)
- *Philosophy of Science* (×9)
- *Philosophy of Physics*
- *Proceedings of the Italian Society for Logic and Philosophy of Science*
- *Studies in History and Philosophy of Science Part A* (×2)
- *Studies in History and Philosophy of Science Part B: Studies in History and Philosophy
of Modern Physics* (×5)
- *Synthese* (×13)
- *Theoria*
- *Theory of Science*
- *The Atlantic*
- Cambridge University Press
- Oxford University Press
- Springer
- Routledge
- Bloomsbury Academic
- National Science Foundation
- Swiss National Science Foundation

- European Research Council (×2)
- John Templeton Foundation (×2)

OTHER WORK
AND RESEARCH

Editorial Assistant

Spring 2017

For Ernest Sosa and Georgi Gardiner
Nôus, PPR, Philosophical Issues

National Science Foundation (NSF) Research Fellowship

Summer 2012

Topic: Theoretical Physics and Computer Modeling:
Recollision Excitation and Non-Sequential Double Ionization of Helium
Supervisor: Stan L. Haan
Department of Physics,
Calvin College

Summer Research Fellowship

Summer 2011

Topic: Mencius (Mengzi) and the Concept of Tian
Supervisor: Kelly James Clark
Department of Philosophy,
Calvin College

Undergraduate Research Assistant

2008-2010

Topic: Membrane Distillation for Water Purification with Reverse Osmosis
Supervisor: Tai-Sheng Chung
Chemical and Biomolecular Engineering,
National University of Singapore

Intern at *The New York Times*

Summer 2010

Interviews, data analysis, and research on business, economics, culture,
and the arts in China
Supervisor: **David Barboza** (2013 Pulitzer Prize Winner)
The New York Times, Shanghai Bureau