

Unabridged List of Talks and Conferences

Charles H. Pence

Keynote Presentations

- 2025 Opening the Black Box(es), *ozsw Autumn School: Data-Driven Methods in Philosophy*, Utrecht University
- 2025 Fitness and Dispositional Properties, *VUB/Ghent LHPS Day*
- 2024 Historical Analysis and the Shifting Journal Article, *Quantitative Studies of Philosophy*, Tilburg University
- 2024 Metascience and the Philosophy of Science, *Philosophy of Science Meets Quantitative Studies of Science*, University of Turin
- 2023 Scientific Disagreement and Text Analysis, *Philosophy [in:of:for:and] Digital Knowledge Infrastructures*
- 2023 Scientific Disagreement and Text Analysis, *HPS & Big Data*, University of Toronto
- 2023 Biodiversity and Taxonomy: Uncertainties and Tools, *Évolution, Écologie et Paléontologie, Ph.D. Day*, Université de Lille
- 2022 Natural Selection and the Metaphysics of Causation, *Causation in Life Sciences*, University of Kent
- 2022 Biodiversity: Ambiguity Between Science and Society, *Le vague dans les sciences*, Université Paris 1 Panthéon-Sorbonne
- 2022 L'ascension du hasard dans l'évolution, *Shesvie 2022*
- 2021 Hypothesis-Driven Digital Philosophy, *Summer School on Methodologies for the History of Philosophy*, University of Groningen
- 2017 Archives to Networks and Back Again, *HSS, THATCampHSS*
- 2016 Theories Under Stress: Evolution in the Late Nineteenth Century, *The Science of Evolution and the Evolution of the Sciences Conference*

Invited Presentations

- 2025 Integrative Promise, *Wageningen University and Research*
- 2025 Scientific Disagreement, Taxonomy, and Biodiversity, *Center for Advanced Studies*, Ilia State University
- 2024 Author Meets Critics, Eugenio Petrovich, *A Quantitative Portrait of Analytic Philosophy*, Quantitative Studies of Philosophy, Tilburg University
- 2024 John Herschel's Philosophy of Science, *John Herschel: The Last Polymath*, Herschel Museum of Astronomy
- 2024 Journal Articles as Ephemeral Texts, *Ephemeral Media of Knowledge*, Le Studium, Tours
- 2024 Fitness and Dispositional Properties, *Brandonfest*, Duke University
- 2024 De l'homme moyen à la population statistique : Quetelet et Galton, *Académie royale de Belgique, Classe des Lettres et des Sciences morales et politiques*
- 2024 La biodiversité et le désaccord scientifique, *Académie royale de Médecine de Belgique*
- 2024 Scientific Disagreement and Text Analysis, *Maastricht University STS Colloquium*
- 2023 Causation, State Spaces, Evolvability, and Creativity in Evolution, *Leibniz Universität Hannover Colloquium Philosophie und Wissenschaftsreflexion*
- 2023 Digitally Charting the Field of Cultural Evolution, *Ruhr University Bochum ROTO Lecture Series*
- 2023 Disagreement and Ambiguity in Biodiversity: A Digital Humanities Perspective, *National Yang Ming Chiao Tung University*
- 2023 Integrative Promise and Explanatory Virtues in the Life Sciences, *National Chung Cheng University*
- 2023 The Causal Structure of Natural Selection, *National Taiwan University Center for Traditional and Scientific Metaphysics*
- 2023 Digital Philosophy and Conceptual Cartography, *Hong Kong University of Science and Technology Philosophy of Science Lecture Series*

- 2023 Building an Edition from Journal Articles, *Wandel, Wert, und Wirkung von Editionen*, Universität Wuppertal
- 2023 Causation, State Spaces, Evolvability, and Creativity, *Evolvability: A Bridge Between the Proximate and the Ultimate?* Australian National University
- 2023 Conceptual Cartography and Textual Analysis, *Methods in Philosophy of Science*, University of Vienna
- 2023 Biodiversity and Taxonomy: Uncertainties and Tools, *ELI-B Seminar*, UCLouvain
- 2023 Interdisciplinarity and Collaboration in Digital Philosophy, *Third DR2 Conference*, Sapienza Università di Roma
- 2022 Philosophy of Science After Big Data, *How Is Artificial Intelligence Changing Science: AI & the Digital Transformation*, Bonn University
- 2022 Topic Modeling for Conceptual Cartography, *Digital Humanities Colloquium*, Freie Universität Berlin
- 2022 Taxonomy Corpus Analysis: Preliminary Data, *Workshop on Taxonomic Disorder*, KU Leuven
- 2022 Natural Selection and the Metaphysics of Causation, *Taiwan-Belgium Philosophy of Science Online Workshop*
- 2022 Chance, Selection, and the Mendelians, *Mendel at 200*, MRC Integrative Epidemiology Unit, University of Bristol
- 2022 The Rise of Chance in Evolutionary Theory, *Instituto Interuniversitario López Piñero*, Universitat de València
- 2022 Mapping the Study of Biodiversity and Taxonomy: Some Preliminary Results, *Instituto Cavanilles de Biodiversidad y Biología Evolutiva*, Universitat de València
- 2022 Natural Selection and the Metaphysics of Causation, *Lógica y Filosofía de la Ciencia*, Universitat de València
- 2022 The Rise of Chance in Evolutionary Theory, *Department of Psychometrics and Statistics*, University of Groningen
- 2022 Digital Literature Analysis for Empirical Philosophy of Science, *Research Group on History and Philosophy of Science*, University of Copenhagen
- 2022 The Rise of Chance in Evolutionary Theory, *Department of Cognitive and Information Sciences*, University of California, Merced
- 2021 Breadth in Scientific Explanation: The Case of Natural History, *Departmental Seminar*, Department of Philosophy, University of Bielefeld
- 2021 Breadth in Scientific Explanation: The Case of Natural History, *Work in Progress Seminar*, CEFISES, UCLouvain
- 2021 Round Table: Digital Futures in the History of Science and Technology, *HSS 2021*
- 2021 Topic Modeling and Optimization, or How We Scheduled ISHPSSB2021 (community/skill-building session), *ISHPSSB 2021*
- 2021 Hypothesis-Driven Digital Philosophy of Science, *New Directions in Metaphilosophy*, University of Kent
- 2021 The Greatly Exaggerated Reports of the Death of Biometry, *Philosophy Department Colloquium*, McMaster University, Ontario
- 2020 Sciveyor: From Corpora to Philosophy of Science, *tu Eindhoven Philosophy and Ethics Group*
- 2020 Big Data, Natural History, and Breadth in Biological Explanations, *BIG Seminar*, Faculté de biologie et de médecine, Université de Lausanne
- 2020 Of Stirps and Chromosomes: Abstraction Through Detail, *PHILBIO Seminar*, IHPST, Université Paris 1 Panthéon-Sorbonne
- 2020 evoText: Intro and Future Directions, *Digital Humanities Brown Bag Lunch*, MPIWG, Berlin
- 2020 Toward a New Picture of the Causalist/Statisticalist Debate, *UNED*, Madrid
- 2019 Lessons from the Case of the Life Sciences: Thinking toward Philosophy of Science as Interdisciplinarity, *Historical Epistemology of the Final Theory Program*, MPIWG, Berlin
- 2019 The Challenge of Breadth: From Darwin to Big Data, *21st EMBL PhD Symposium: Facing the Future*, EMBL Heidelberg
- 2019 Of Stirps and Chromosomes: Early Attempts at Grounding Statistical Inheritance, *New Directions in the Historiography of Genetics*, Cohn Institute, Tel Aviv University

- 2019 Analyzing the Biological Literature with evoText, *Digital History and Philosophy of Science*, Université de Québec à Montréal
- 2019 Digital Humanities as Empirical Philosophy of Science (with Oliver Lean and Luca Rivelli), *XPhiSci 2019 — Workshop on Experimental Philosophy of Science*, Aarhus University
- 2019 John Herschel and Nineteenth-Century Scientific Methodology (roundtable), *HSS 2019*
- 2019 From the Biological World to Statistical Theories: Nineteenth-Century Lessons for Twenty-First-Century Philosophy of Biology, *ISHPSSB 2019*
- 2019 Robots, Artificial Intelligence, and Moral Responsibility, *Journée d'étude, "Faire exister les IA-robots-cyborgs: un nouveau projet humaniste pour l'Europe ?"*
- 2019 Dual-Use Research and the "Scientific Community," *Delft University of Technology*
- 2019 "The Wonderful Form of Cosmic Order:" Bringing Statistics to Evolution, *LIBST and ELI-B Joint Seminar, UCLouvain*
- 2019 Causation and Metaphysics in Evolutionary Biology, *VUB/Ghent Seminar in Philosophy of Science*
- 2019 "The Wonderful Form of Cosmic Order:" Bringing Statistics to Evolution, *PhilInBioMed, Université de Bordeaux*
- 2019 "The Wonderful Form of Cosmic Order:" Bringing Statistics to Evolution, *Work in Progress Seminar, CEFISES, UCLouvain*
- 2019 Mental Properties and Computer Code: An Analogy for Bridging the Natural and Social Sciences (with Peter Verdée), *INSOSCI Symposium, University of Witten/Herdecke*
- 2018 Causation and Metaphysics in Evolutionary Biology, *KU Leuven CLPS Seminar*
- 2018 "Like Somebody Who Has Seen Thousands of Trees but Has Never Seen a Forest:" The Critical Role of History and Philosophy of Science in Science Education, *HSS 2018*
- 2018 The Development of Darwin's Views of Chance, *Center for Science Studies, Aarhus University*
- 2018 Darwin on Mind, Ethics, and Animals, *CEFISES Seminar, GRICE, UCLouvain*
- 2017 Syntheses that Weren't: W.F.R. Weldon's Abandoned "Synthesis" of Biometry and Mendelism, *ISHPSSB 2017*
- 2017 Theories Under Stress: Evolution in the Late Nineteenth Century, *University of Leeds HPS Centre Seminar*
- 2017 Theories Under Stress: Evolution in the Late Nineteenth Century, *University College London*
- 2017 Evolution and Chance: From Darwin to the Pioneers of Statistics in Biology, *Darwin Day, Stephen F. Austin State University*
- 2017 Fitness and Prediction in Evolutionary Theory, *London School of Economics*
- 2016 The Economy of Nature and the Structure of Evolution, *KU Leuven CLAW Seminar*
- 2016 Introduction to Text Mining, *LSU Digital Scholarship Lab*
- 2015 Adaptive Dynamics, Chaos, Chance, and Fitness, *Mississippi State University Philosophy Colloquium*
- 2015 Quantitative Textual Analysis and Philosophy: Hypothesis-Testing and Data-Mining Philosophical Ideas, *APA Pacific Division Meeting*
- 2015 Commentator: Ethics of Emerging Weapons Technologies, *Reilly Center 30th Anniversary Celebration*
- 2014 Is Organismic Fitness at the Basis of Evolutionary Theory? *LSU Philosophy Salon*
- 2014 Background Briefing: Attribution & Repression in Cyberwarfare, *International Committee of the Red Cross*
- 2014 Ethics of Emerging Weapons Technologies: A Pedagogical Approach, *Fondation Brocher*
- 2014 Coming to Terms with Chance in Evolutionary Theory, *Louisiana State University*

Refereed Presentations

- 2025 Tracer le désaccord dans la taxonomie, *SPS 2025, Université Mohammed VI Polytechnique*
- 2025 Knowledge Synthesis in the Cultural Evolution Literature (with Kevin Kaiser), *ISHPSSB 2025*
- 2024 Disentangling the Diversity of Organoids (with Maxence Gaillard), *PSA 2024*
- 2023 Textual Analysis and Conceptual Cartography, *EPSA 2023*

- 2023 Metaphysics and the Philosophy of Biology (with Caleb Hazelwood), *Australia/New Zealand Philosophy of Biology Workshop*
- 2022 Influenza Research, GoF, and Model Organisms, *PSA 2022*
- 2022 Gain-of-Function Research and Model Organisms in Virology, *Enjeux épistémiques et éthiques autour de la pandémie de COVID-19*
- 2021 Breadth in Scientific Explanation, *SPS 2021*
- 2021 Darwin, Natural History, and Explanatory Breadth, *ISHPSSB 2021*
- 2019 From the Biological World to Statistical Theories: Nineteenth-Century Lessons for Twenty-First-Century Philosophy of Biology, *EPSA 2019*
- 2019 Reversion and Deep Ancestry in Early Genetics, *Integrated History and Philosophy of Science Workshop*
- 2018 Chance, Statistics, and Experiment in Early Evolutionary Biology, *HOPOS 2018*
- 2017 Darwin and Evolution: Using Historical Critiques and Responses to Address Student Misunderstandings, *National Science Teachers Association Conference on Science Education*
- 2017 C'mon, Neil! Why Good Philosophy of Science is Part of Good Science Teaching and Science *National Science Teachers Association Conference on Science Education*
- 2016 evoText and the Philosophy of Science, *PSA 2016*
- 2016 The Economy of Nature: Structure in Biology from Linnaeus, to Darwin, to the Modern Synthesis, *The History of Science and Contemporary Scientific Realism*
- 2015 Charles Darwin and Sir John F.W. Herschel: Nineteenth-Century Science and its Methodology, *EPSA 2015*
- 2015 Charles Darwin and Sir John F.W. Herschel: Nineteenth-Century Science and its Methodology, *CLMPS 2015*
- 2015 Adaptive Dynamics, Chaos, Chance, and Fitness, *ISHPSSB 2015*
- 2014 Is Organismic Fitness at the Basis of Evolutionary Theory? *PSA 2014*
- 2014 Models, Probability, and the Deep Past, *Models and Simulations 6*
- 2013 Process and Product Concepts of Natural Selection and Genetic Drift, *EPSA 2013*
- 2013 Process and Product Concepts of Natural Selection and Genetic Drift, *ISHPSSB 2013*
- 2012 Symposium: It's Okay to Call Genetic Drift a "Force" (commentators: Lindley Darden and Lindsay Craig), *APA Eastern Division Meeting*
- 2012 It's Okay to Call Genetic Drift a "Force", *PSA 2012*
- 2012 Oyun: Prisoner's Dilemma Tournaments in the Philosophy of Science, *American Association of Philosophy Teachers Meeting*
- 2012 The Early History of Chance in Evolution: Causal and Statistical in the 1890s, *HOPOS 2012*
- 2012 Software Demo: RLetters, *Digital Humanities Summer Institute Colloquium*
- 2012 Four Conflated 'Chance'-Like Concepts in Evolutionary Theory, *Indiana Philosophical Association*
- 2012 Biology and Metaphysics: The Causalist/Statisticalist Debate, *PhiloSTEM-3*
- 2012 The Early History of Chance in Evolution: Causal and Statistical in the 1890s, *CHPS4*
- 2011 Chance in Evolution: A Reassessment, *ISHPSSB 2011*
- 2009 Biometry and Mendelism: A Philosophical Controversy, *ISHPSSB 2009*
- 2009 W.F.R. Weldon, Karl Pearson, and Causation, *MBL-ASU History of Biology Summer Seminar*
- 2008 Toward a New Picture of Logical Reduction, *University of Western Ontario Logic, Mathematics and Physics Graduate Philosophy Conference*

Invited Workshops and Seminars

- 2024 The Letters of Sir John Frederick William Herschel, Royal Society, London
- 2023 HYBRIDA Project General Assembly, Pontifical Academy for Life, Rome
- 2022 Computational Methods in Philosophy (instructor), Models & Methods, 2022 Summer School of the Vienna Doctoral School of Philosophy
- 2019 The Integration of Cross-Disciplinary Research in Neuroscience and Social Science (INSOSCI), Symposium

- 2018 Association for Practical and Professional Ethics, Ethics Center Directors' Summit
- 2017 Society for Ethics Across the Curriculum (as Director, LSU Ethics Institute)
- 2016 Cyberwarfare Curriculum Development (invited participant), Naval Postgraduate School
- 2014 Cyberwar, Ethics, and International Humanitarian Law (invited participant), International Committee of the Red Cross, Geneva
- 2013 Uses of Scale in Literary Study Workshop (invited participant), University of Illinois at Urbana-Champaign
- 2012 Digital Humanities Summer Institute, University of Victoria: Out-of-the-Box Text Analysis for the Digital Humanities
- 2009 Marine Biological Laboratory / Arizona State University History of Biology Summer Seminar: Theory in the Life Sciences
- 2006 Carnegie Mellon Summer School in Logic and Formal Epistemology
- 2003 University of Texas M.D. Anderson Cancer Center Science Park Summer Research Program

Poster Presentations

- 2018 K-12 Science Teachers: Unsuspecting Philosophers of Science (with Greg Macklem and Erik Peterson), *PSA 2018*
- 2012 evoText: Digital Humanities Meets Evolutionary Biology, *Notre Dame Graduate Research Symposium (awards received)*
- 2011 MTBindingSim: A Program to Simulate Protein Binding to Microtubules (with Julia Philip and Holly Goodson), *Chicago Cytoskeleton*

Other Presentations

- 2025 Disagreement in Taxonomy: Recent Results (with Stijn Conix), *CEFISES Seminar: WIP, UCLouvain*
- 2025 Big Data et IA dans la recherche : Enjeux épistémologiques, *Cercle des Étudiants en Philosophie, UCLouvain*
- 2024 La « tension essentielle », la conformité et le complotisme, *Cercle des Étudiants en Philosophie, UCLouvain*
- 2023 Public panel, « Réussir la transition énergétique : enjeux et perspectives », *Confluence*
- 2022 Biodiversity: Ambiguity Between Science and Society, *CEFISES Seminar: Conservation, UCLouvain*
- 2022 Les « problèmes pernicious », ou, pourquoi les infos sont tellement déprimantes, *Cercle des Étudiants en Philosophie, UCLouvain*
- 2022 La crise de la biodiversité : enjeux épistémologiques, *Société Philosophique de Louvain*
- 2019 Why Should We Value Biodiversity? *Colloque du Cercle des Étudiants en Philosophie, UCLouvain*
- 2013 evoText, *National Evolutionary Synthesis Center*
- 2013 The Ethics of Warfare on the Unmanned Battlefield, *US Air Force ROTC Detachment 225, Leadership Laboratory*

Conference and Seminar Organization

Conference Organizer or Co-Organizer

- 2025 Program Committee Co-Chair, ISHPSSB 2025, University of Porto, 621 talks, ~700 attendees
- 2023 Organizer, Integrating the History and Philosophy of Biodiversity, Museum of Natural Sciences, Brussels, 17 talks, ~40 attendees
- 2021 Organizer, DS²: Digital Studies of Digital Science, online, 28 talks, ~250 attendees

Seminar Organizer or Co-Organizer

- 2024–2025 Digital Studies in History and Philosophy of Science (co-organized with Stijn Conix), CEFISES, UCLouvain
- 2024–2025 Philosophy of Molecular and Developmental Biology (co-organized with Azat Garaev), CEFISES, UCLouvain
- 2022–2024 Post-Darwinian Societies Seminar (co-organized with Gregory Ponthière), CEFISES and Chaire Hoover, UCLouvain
- 2019–2023 GRICE Research Group (Groupe de recherche interdisciplinaire sur la crise écologique, co-organizer), UCLouvain
- 2022–2023 Monthly Seminar, History and Philosophy of Conservation Biology (co-organized with Max Bautista), CEFISES, UCLouvain
- 2019–2020 Monthly Seminar, Artifacts of Scientific Practice (co-organized with Oliver Lean and Luca Rivelli), CEFISES, UCLouvain
- 2019 Workshop on Text Mining in Philosophy (co-organized with Christophe Malaterre), Université du Québec à Montréal
- 2018–2019 Monthly Seminar, Historical Explanation, CEFISES, UCLouvain

Organizing Committee Member

- 2024 Scientific Committee, Reductionism in Transitions, UNamur
- 2024 Scientific Committee, The Metaphysics of Chemistry, UCLouvain
- 2023 Program Committee, OLOFOS Workshop “De la science à la métaphysique?” UCLouvain
- 2023 Scientific Committee, École d’été CNRS de la Société de Philosophie des Sciences
- 2022 Organizing Committee, Société d’histoire et d’épistémologie des sciences de la vie (Shesvie) 2022, UCLouvain
- 2021 Program Committee, ISHPSSB 2021, online
- 2020 Program Committee, Clash Between the Scientific and the Manifest Image of the World, UCLouvain
- 2019 Scientific Committee, Explaining Explanation Using New Developments in Logic and Formal Semantics, UCLouvain
- 2018 Scientific Committee, IX Conference of the Spanish Society for Logic, Methodology, and Philosophy of Science, UNED, Madrid

Last revised: October 28, 2025