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

2026 Tracer le désaccord dans la taxonomie, *Collegium, Académie royal de Belgique*
2025 The HPS "Long View" and the Case of the Journal Article, *History and Philosophy of Science Seminar, CEFISES, UCLouvain*
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 Medicine 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 Cartographym *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, *&HPS4*
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

2026 Séminaire « Repenser l'université », UCLouvain Campus Saint-Louis Bruxelles
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 pernicieux », 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, DS^2: 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

2026 Scientific Committee, Transgressing Boundaries: Unusual Applications of Formal Logic, UCLouvain
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: February 24, 2026