

Thomas BOYER-KASSEM

(born BOYER)

Associate Professor in Logic and Philosophy of Science
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France.



- PhD in Philosophy (Univ. Paris 1, 2011),
“Agrégé” in Physics (2006).
Former student of the ÉNS de Cachan (2003).
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<http://thomasboyerkassem.yolasite.com/> (*publications can be downloaded from this website*)
- Born on 21 April 1984. French nationality. Married, four children (2015, 2016, 2018, 2020).
- **Areas Of Specialization** : philosophy of science, philosophy of physics, social epistemology, formal epistemology, decision theory.
- **Areas Of Competence** : epistemology, history and philosophy of science, logic, history of analytic philosophy, physics.

Academic positions

- 2018-... **Associate Professor** (Maître de Conférences) **in Logic and Philosophy of Science**,
Université de Poitiers, Philosophy Department.
(on parental leave for 2021-2023)
- 2017-2018 **Assistant Professor** (ATER) **in Philosophy**, **Université Grenoble Alpes**, Philosophy Department.
- 2015-2017 **Post-doctoral researcher** AXA Research Fellow, **TiLPS**, **Tilburg University**, The Netherlands.
- 2014-2015 **Post-doctoral researcher**, **Archives H. Poincaré**, Nancy.
- 2013-2014 **Assistant Professor** (ATER) **in Philosophy**, **Université Lille 3**, Philosophy Department.
- 2012-2013 **Assistant Professor** (ATER) **in History and Philosophy of Science**, **Université Lille 1**, Physics Department.
- 2012 **Post-doctoral researcher**, **MSH Lorraine**, Nancy.
- 9-12/2010 **Invited scholar**, **Columbia University**, USA, Philosophy Department (P. KITCHER).
- 2008-2011 **Graduate student**, **Université de Paris 1 Panthéon-Sorbonne**, at the IHPST lab.

Education

- 2011 **PhD (doctorat) in Philosophy, Université de Paris 1 Panthéon-Sorbonne**, grade “With Highest Honors”, unanimous jury.
Thesis (in French): “The plurality of interpretations of a scientific theory: the case of quantum mechanics” [[abstract & pdf](#)], directed by Jacques DUBUCS (Research Director, IHPST) and Anouk BARBEROUSSE (Full Professor, Université Lille 1).
Members of the jury: Alexandre GUAY (Associate Professor, Université de Bourgogne), Franck LALOË (Research Director, ÉNS), Stéphanie RUPHY (Associate Professor HDR, Université de Provence). Report by Philip KITCHER (Full Professor, Columbia University, États-Unis).
- 2010 **Course on Philosophy of Quantum Mechanics** (*graduate students*), Columbia University, USA.
- 2009 **Summer School on Philosophy of Quantum Mechanics** “GSSPP09”, Geneva University, Switzerland.
- 2003-2008 **Student at the École Normale Supérieure de Cachan, 2nd**. (*The ÉNS de Cachan is a highly competitive “Grande École”, distinct from universities. Students are civil servants.*)
- 2008 **Master in Philosophy**, specialty Philosophy of Science, Université de Paris 1 Panthéon-Sorbonne. **Grade Very Good**.
Thesis (in French): “Quantum mechanics and path integral: does the interpretation of a theory change with its mathematical formulation?”, directed by A. Barberousse (IHPST) and G. Cohen-Tannoudji (CEA). Grade: **18/20**.
- 2007 **Licence in Philosophy**, Université de Toulouse 2.
- 2006 **“Agrégation” in Physics, 21st** (135 admitted, 1700 applicants).
(*French highest competitive exam to be able to teach in highschools or universities*)
- 2005 **Master 1 in Physics**, Université de Paris 6. **Grade Good**.
4-months research internship at the Physics Institute, Humboldt-Universität zu Berlin (Germany).
- 2004 **Licence in Physics**, Université de Paris 6. **Grade Very Good**.
- 2003 **Admitted at the ÉNS de Cachan**, Physics department.
2nd at the competitive exam École Polytechnique & ÉNS de Cachan (PSI track).
- 2001-2003 Scientific “classes préparatoires”, lycée Louis-le-Grand, Paris.
(*intensive classes to prepare for competitive exams*)

Prizes, grants, and research projects

- 2021-2025 **Bonus for Graduate Student Direction and Research** (PEDR).
- 2013 **Young Researcher Prize** of the French Philosophy of Science Society (SPS) [[www](#)]
- 2020 Project MSHS Poitiers / CNRS “Decision, risk, meditation” (10 k€).
- 2019 Project MSHS Poitiers “Precaution in health and environment” (3,5 k€).
- 2018-2021 **Junior Excellence Chair**, Idex Bordeaux (320 k€), declined.
- 2018-2020 **Marie Skłodowska-Curie Grant**, London School of Economics (200 k€), declined.
- 2015-2017 **Post-doctoral Grant** Axa Research Fund (120 k€).
- 2008-2011 Graduate student allowance, Université de Paris 1.

Member of research projects

- 2020-2023 ANR project “CRISP” (resp. S. RUPHY, ENS). [[www](#)]
- 2020-2023 Nouvelle-Aquitaine region project “PhiBioMed” (resp. M. LEMOINE, U. Bordeaux).
- 2021-2022 ANR project “Respire” (resp. B. Ventelou, Aix-Marseille U.) [[www](#)]
- 2020-2021 ANR Flash COVID-19 project “ConfinObs” (resp. M. Willinger, U. Montpellier) [[www](#)]

- 2019-... PhilInBioMed network, Université de Bordeaux (resp. T. PRADEU, CNRS, Bordeaux).
- 2018-2022 Project “Collaborative space: crossing knowledge with all” (GIS Participation and Democracy: ATD Fourth World, CNAM, CNRS) [www]
- 2017 Idex Jedi project , Univ. Côte d’Azur, “Quantum Cognition” (resp. É. GUERCI, U. Nice).
- 2016-2017 CPER Univ. Lorraine project “D3CTRIX ” (resp. C. IMBERT, CNRS, Nancy).
- 2015 CNRS PEPS project “ D3CTRIX” (resp. C. IMBERT, CNRS, Nancy).
- 2015 CNRS PEPS project “Quantumtest” (resp. É. GUERCI, U. Nice).
- 2011-2014 MSH Lorraine project “Colestia” (resp. C. IMBERT, CNRS, Nancy).
- 2009-2011 ANR project “Compuphys” (resp. A. BARBEROUSSE, CNRS, Paris).

Administration and research activities

Pedagogical responsibilities

- 2018-2021 **Director of the Undergraduate Studies** in Philosophy, Université de Poitiers.
- 2018-2021 Handicap referent for the Philosophy department, Université de Poitiers.

Research management

Graduate student direction:

- 2021-... Sara Martouzet, “*Meaning and values of healthcare in organ donation of a Maastricht III kind: an approach of field philosophy*”, co-dir. with E. Rusch (Univ. Tours).

Member of a PhD jury:

- 2020 André Sarrazin, “*Causality between physics and metaphysics*”, Université de Poitiers and Institut Catholique de Paris, 9 Dec. 2020. (Directors: Sylvain Roux and Camille Riquier)
- 2019 Daniel Mateo Ramirez, “*Determinism and indeterminism: Bergson’s philosophy and the analysis of physical problems*”, Université de Poitiers, 17 Dec. 2019. (Director: Sylvain Roux)

Master theses:

- 2019-... Direction of 2 Master 1 theses in philosophy of science (Univ. Poitiers).
- 2017-2018 Direction de 2 Master 1 theses in philosophy of science (Univ. Grenoble Alpes).
- 2017-... Member of the jury of 3 Master 2 theses in philosophy (Grenoble and Poitiers).
- 2019-... Member of the direction team, Diploma “Philosophy in the sciences: conceptual approaches applied to biological and medical research”, Université de Bordeaux. [www]

Member of a recruitment committee

- 2020 Position of Associate Professor “Philosophy of technics: contemporary approaches”, Univ. Paris 10 Nanterre.

Editorial responsibilities, expertise

Member of scientific committees:

- Classiques Garnier editions, coll. « History and Philosophy of Science », Paris (since 2009).
- *Philosophia Scientiæ*, Paris: Kimé (since 2015).

Reviewer for journals:

- **philosophical:**
 - *Analysis*,
 - *Dialogue*,
 - *European Journal for Phil. of Science*,
 - *L’Encyclopédie Philosophique*,
 - *Journal of Philosophy*,
 - *Lato Sensu* (×4),
 - *Philosophers’ Imprint*,
 - *Philosophia Scientiæ* (×2),
 - *Philosophy & Technology*,
 - *Philosophy of Science* (×2),
 - *Studies in History and Phil. of Science*,
 - *Synthese* (×5).
- **scientific or interdisciplinary:**
 - *Axioms*,
 - *Ethics, Policy and Environment*,
 - *Historical Social Research*,
 - *Journal of Mathematical Psychology*,
 - *Participations*,
 - *Politics, Philosophy & Economics*,
 - *Revue des Questions Scientifiques*,
 - *Risk Analysis*.

Scientific expert for research grants:

- Agence Nationale de la Recherche (2021),
- European Science Foundation (2016-2022),
- Quantum Engineering, Université Grenoble Alpes (2018, 2019),
- City of Paris (2015),
- Île-de-France Region (2012).

Scientific expert for assessing institutions :

- AÉRES (2013).

Organization of workshops and seminars

- 2019-... *Social and formal epistemology seminar*,
Paris Sorbonne, monthly (co-org. with C. IMBERT, I. DROUET, C. PATERNOTTE).
- 2019 “*Precaution*” seminar, Poitiers, monthly.
- 2017 “Group decision-making in scientific expert committees”,
Tilburg University (Pays-Bas), 12-13 April. (co-org. with D. KLEIN). [[www](#)]
- 2016 “Modelisation and Simulation in Social Sciences and Humanities”,
Université de Lorraine, Nancy, 13-14 Oct. (co-org. with C. BOURJOT, V. CHEVRIER, C. IMBERT).
“Philosophy of the Precautionary Principle”,
Tilburg University (The Netherlands), 3 May. (co-org. with J. SPRENGER) [[www](#)]
- 2015 “Modelisation of collective decisions: interdisciplinary perspectives”,
MSH Lorraine, Nancy, 17-18 Nov. (co-org with C. IMBERT)
“Quantum models of cognition”,
MSHS South East, Nice, 8 Jan. (co-org. with S. DUCHÊNE and É. GUERCI). [[www](#)]
- 2013 “Modeling epistemic and scientific groups: interdisciplinary perspectives”,
MSH Lorraine, Nancy, 25-26 Nov. (co-org. with H. GALINON and C. IMBERT). [[www](#)]
- 2012 “Epistemic groups and collaborative research in science”,
Archives H. Poincaré, 17-19 Dec. (co-org. with C. IMBERT). [[www](#)]

Member of the program committee:

- 2019
 - European Philosophy of Science Association 2019 Conference, Geneva (Switzerland), 11-14 Sept. [[www](#)]
 - “Formal Epistemology Workshop 2019”, University of Turin (Italy), 19-21 June.

- 2018 – “Is there a future for progress?”, Universcience / Cité des Sciences, Paris, May.
- 2017 – “Formal Epistemology Workshop 2017”, Washington Univ. (Seattle, USA), 26-28 May
- 2016 – “René Descartes Lectures”, Tilburg University (Pays-Bas), 5-7 Sept.
- 2014 – “Agent-based modeling in philosophy”, LMU Munich (Allemagne), 11-13 Dec.

Organization of reading groups

- 2016-2017 Tilburg University (The Netherlands) : collective decisions (monthly).
- 2015-2016 Tilburg University (The Netherlands) : philosophy of risk (monthly). [[www](#)]
- 2012 Archives H. Poincaré, Nancy : social epistemology (monthly).
- 2009-2010 IHPST, Paris : models and scientific representation (bimonthly).
- 2008-2009 IHPST, Paris : causality (bimonthly).

Publications

Please note that my name was BOYER before 2014, and BOYER-KASSEM afterwards.

Book

- [A.1] BOYER-KASSEM, Thomas (2015), *Qu'est-ce que la Mécanique Quantique ? (What is Quantum Mechanics?)*, Paris: Vrin, Coll. "Chemins Philosophiques", 128 p. [\[pdf\]](#)

Reviewed in *L'Œil de Minerve*.

Edited book

- [B.1] BOYER-KASSEM, Thomas, Conor MAYO-WILSON and Michael WEISBERG (éds.) (2017), *Scientific Collaboration and Collective Knowledge*, New York: Oxford University Press. [\[pdf\]](#) [\[www\]](#)

Reviewed in *BJPS Review of Books*, *Lato Sensu*, *Notre Dame Philosophical Reviews*, *Philosophy of Science*.

Articles in international journals

- [C.14] IMBERT, Cyrille, and Thomas BOYER-KASSEM (forthcoming), "Explaining scientific collaboration: a general functional account", *The British Journal for the Philosophy of Science* [\[pdf\]](#) [\[doi\]](#)
- [C.13] IMBERT, Cyrille, Thomas BOYER-KASSEM, Vincent CHEVRIER and Christine BOURJOT (2020), "Improving deliberations by reducing misrepresentation effects", *Episteme* 17(4), 403-419. [\[pdf\]](#) [\[doi\]](#)
- [C.12] BOYER-KASSEM, Thomas and Sébastien DUCHÊNE (2020), "On discrimination in health insurance", *Social Choice and Welfare*, 55(1), 5-23. [\[pdf\]](#) [\[doi\]](#)
- [C.11] BOYER-KASSEM, Thomas (2019), "Comment: The Precautionary Principle and Judgment Aggregation", *Risk Analysis*, 39(6):1225-1226. [\[pdf\]](#) [\[doi\]](#)
- [C.10] BOYER-KASSEM, Thomas (2019), "Scientific expertise and risk aggregation", *Philosophy of Science* 86(1) : 124-144. [\[pdf\]](#) [\[doi\]](#)
- [C.9] BOYER-KASSEM, Thomas (2017), "The Precautionary Principle has not been shown to be incoherent: A reply to Peterson", *Risk Analysis* 37(11): 2039–2040. [\[pdf\]](#) [\[doi\]](#)
- [C.8] BOYER-KASSEM, Thomas (2017), "Is the Precautionary Principle really incoherent?", *Risk Analysis* 37(11): 2026–2034. [\[pdf\]](#) [\[doi\]](#)
- [C.7] DUCHÊNE, Sébastien, Thomas BOYER-KASSEM and Éric GUERCI (2017), "Une nouvelle approche expérimentale pour tester les modèles quantiques de l'erreur de conjonction" ("A new experimental approach to test quantum models of the conjunction error"), *Revue Économique*, vol. 5, p. 16-31 (proceedings of the annual conference of the ASFEE 2015). [\[pdf\]](#) [\[doi\]](#)
- [C.6] BOYER-KASSEM, Thomas, Sébastien DUCHÊNE and Éric GUERCI (2016), "Quantum-like models cannot account for the conjunction fallacy", *Theory and Decision*, 81(4): 479-510. [\[pdf\]](#) [\[doi\]](#)
- [C.5] BOYER-KASSEM, Thomas, Sébastien DUCHÊNE and Éric GUERCI, (2016) "Testing quantum-like models of judgment for question order effect", *Mathematical Social Sciences* 80 : 33-46. [\[pdf\]](#) [\[doi\]](#)
- [C.4] BOYER-KASSEM, Thomas and Cyrille IMBERT (2015), "Scientific collaboration: do two heads need to be more than twice better than one?", *Philosophy of Science* 82(4): 667-688. [\[pdf\]](#) [\[jstor\]](#) [\[doi\]](#)
- [C.3] BOYER-KASSEM, Thomas (2014), "Layers of Models in Computer Simulations ", *International Studies in the Philosophy of Science*, 28(4): 417-436. [\[pdf\]](#) [\[doi\]](#)

- [C.2] BOYER, Thomas (2014), “Is a bird in the hand worth two in the bush? Or, whether scientists should publish their intermediate results”, *Synthese*, 191 (1): 17–35. [[pdf](#)] [[doi](#)]. (**Prix SPS Jeunes Chercheurs 2013**)
- [C.1] BOYER, Thomas, Wolfgang BIETENHOLZ and Jair WUILLOUD (2007), « Spin chain simulations with a meron cluster algorithm », *International Journal of Modern Physics C* 18: 1497–1511. [[pdf](#)] [[doi](#)]

Articles in national journals

- [D.3] BOYER-KASSEM, Thomas (2017), “Le principe de précaution” (“The Precautionary Principle), in M. Kristanek (ed.), *L’Encyclopédie Philosophique*. [[www](#)]
- [D.2] BOYER-KASSEM, Thomas (2015), “Les interprétations de la mécanique quantique : une vue d’ensemble introductive” (“Quantum interpretations: an introductive overview”), *Implications Philosophiques*, Sept. 2015. [[pdf](#)] [[www](#)]
- [D.1] BOYER, Thomas and Anouk BARBEROUSSE (2013), “Interpréter une théorie physique” (“Interpreting a physical theory”), *Methodos*, 13|2013, online 11 March 2013. [[pdf](#)] [[doi](#)]

Book chapters

- [E.3] BOYER-KASSEM, Thomas (forthcoming), “L’acceptabilité du risque dans les groupes” (“Risk acceptability in groups”), in M. AUDIFFREN and I. DE LA VILLE (dir.), *De l’identification à l’acceptabilité sociale des risques. Une approche interdisciplinaire et multiniveaux (From the identification to the social acceptability of risks. A multidisciplinary and multilevel approach)*, Presses Universitaires de Rennes, coll. SHS. [[pdf](#)]
- [E.2] BOYER-KASSEM, Thomas (2020), “Physique quantique” (“Quantum physics”), in J. GAYON (dir.), *Dictionnaire Encyclopédique de l’Identité (Encyclopedic Dictionary of Identity)*, Gallimard, coll. Folio Essais. [[pdf](#)]
- [E.1] BOYER-KASSEM, Thomas, Conor MAYO-WILSON and Michael WEISBERG (2017), “Introduction”, in T. BOYER-KASSEM, C. MAYO-WILSON and M. WEISBERG (eds.), *Scientific Collaboration and Collective Knowledge*, New York: Oxford University Press, p. xi-xix.

Translations (from English to French)

- [F.2] BOYER-KASSEM, Thomas (forthcoming), translation of “The Division of Cognitive Labor”, P. Kitcher, in BONNAY, D. and GALINON, H. (eds.), *Textes clés de l’épistémologie sociale (Essential readings in social epistemology)*, Paris: Vrin. [[pdf](#)]
- [F.1] BOYER-KASSEM, Thomas (2018), translation of “Dispelling the Quantum Spooks — a Clue that Einstein Missed?”, H. Price and K. Wharton, in BOUTON, C. and HUNEMAN, P. (eds.), *Temps de la nature et nature du temps (The time of nature and the nature of time)*, Paris: CNRS éditions. [[pdf](#)]

Book reviews

- [G.2] BOYER-KASSEM, Thomas (2019), “Review of Daniel Steel (2015), *Philosophy and the Precautionary Principle*”, *Ethics, Policy & Environment* 22(1): 103–105. [[pdf](#)] [[doi](#)]
- [G.1] BOYER-KASSEM, Thomas (2016), “Le principe de précaution est-il bien raisonnable ?” (“Is the precautionary principle reasonable?”) (review of Steel 2015, *Philosophy and the Precautionary Principle*), *La Vie des Idées*, 25 July 2016. [[www](#)]

Outreach

- [H.8] BOYER-KASSEM, Thomas, Sébastien DUCHÊNE and Julie JEBEILE (2022), “Améliorer l’impartialité de l’expertise scientifique” (“Improving the impartiality of scientific expertise”), *Gestions Hospitalières*, num. 614, p. 114-116 (proceedings of the 17th Assises Nationales Hospitalo-Universitaires, Lille, 2021). [[pdf](#)] [[www](#)]
- [H.7] BOYER-KASSEM, Thomas (2020), “ Le principe de précaution” (“The Precautionary Principle”), *L’Actualité Nouvelle-Aquitaine* 127, p. 42-43. [[pdf](#)] [[www](#)]
- [H.6] Interviewed on [les-philosophes.fr](#) (2019). [[www](#)]
- [H.5] BOYER-KASSEM, Thomas (2019), “ Le jugement majoritaire et la délibération : mieux discuter, pour mieux voter !” (“Majority Judgment and deliberation: to better vote, discuss better!”), for the association Mieux Voter, [mieuxvoter.fr](#). [[www](#)]
- [H.4] BOYER-KASSEM, Thomas (2017), “ Lutter contre les préjugés sur la pauvreté” (“Fighting bias on poverty”), *Revue Quart Monde* 243, p. 50-52. [[pdf](#)] [[www](#)]
- [H.3] BOYER-KASSEM, Thomas (2017), “ Une théorie en quête de sens” (“A theory looking for meaning”) (on Quantum Physics), *La Recherche*, Feb. 2017, 520, p. 50-52. [[pdf](#)]
- [H.2] Interviewed in a Brazilian philosophy journal: *Filogênese*, 2014, 7(1): i-xxi. [[www](#)]
- [H.1] Interviewed or quoted in scientific magazines:
Science & Vie Junior (2014), 109;
Science & Vie (2012), 1135.

Other publications

- [I.4] BOYER-KASSEM, Thomas, Henri GALINON and Cyrille IMBERT (2014), “Conference report: Modeling Epistemic and Scientific Groups”, *The Reasoner*, 8(2): 16.
- [I.3] BOYER, Thomas and Cyrille IMBERT (2013), “Conference report: Epistemic Groups and Collaborative Research in Science”, *The Reasoner*, 7(2): 20.
- [I.2] BOYER, Thomas (2012), « Conference report: The Collective Dimension of Science », *The Reasoner*, 6(2): 25.
- [I.1] BOYER, Thomas (2011), “La pluralité des interprétations d’une théorie scientifique : le cas de la mécanique quantique” (“The plurality of interpretations of a scientific theory: the case of quantum mechanics”), PhD thesis, Paris: Université de Paris 1. [[abstract & pdf](#)].

Working papers

- [J.5] “Improving oral voting with balanced procedures” (with Cyrille IMBERT) (10000 words)
- [J.4] “Reasonable precaution or unjust discrimination? Applying a lexical utility model of the precautionary principle to moral choices” (with Sébastien DUCHÊNE) (7000 words)
- [J.3] “Compliance with Covid-19 sanitary measures: don’t forget the precautionary principle” (with Sébastien DUCHÊNE and Ismaël RAFAÏ) (2000 words)
- [J.2] “A majority believes that P , so what? — On applying Majority Judgment to the knowledge doMayn” (10000 words)
- [J.1] “Choosing between quantum interpretations”

Oral communications

Oral communications in conferences with a selection committee

- 2021 “Est-il pertinent que ‘la majorité croit que P’ ? À propos de l’extension du jugement majoritaire en épistémologie”, *La notion de degré en épistémologie*, GRE, Collège de France. 24 June.
- 2019 “ On discrimination in health insurance”,
MANCEPT workshop, University of Manchester (UK). 9-11 Sept.
“In Praise of Contradiction: How to Help Groups Uncover What They Privately Believe”,
Agent-Based Models in Philosophy, Ruhr Universität Bochum (Germany). 20-22 March.
- 2016 “Scientific expertise, risk assessment, and majority voting”,
Conference of the Philosophy of Science Association 2016, Atlanta (USA). 3-5 Nov.
“Is value-free scientific expertise possible?”,
Descartes lectures, Tilburg University (The Netherlands). 5-7 Sept.
“Group knowledge: aggregating a numerical comparison”,
Conference of the European Epistemology Network, Paris. 6-8 June.
“A defense of the Precautionary Principle”,
MuST9: Evidence, Inference, and Risk, LMU Munich (Germany). 31 March-2 April.
“Testing quantum-like models for question order effects and for the conjunction fallacy”,
Quantum Probability and Decision Making, Fields Institute, Toronto (Canada). 9-11 March.
- 2014 “ Explaining scientific collaboration”,
Agent-Based Modeling in Philosophy, LMU Munich (Germany). 11-13 Dec.
“La multiplicité des explications scientifiques”,
5th congress of the Société de Philosophie des Sciences, Lille. 25-27 June.
- 2012 “L’unité d’un domaine de recherche scientifique, d’un point de vue pratique” ,
4th congress of the Société de Philosophie des Sciences, Montréal (Canada). 1-3 June.
“L’unité d’un domaine de recherche scientifique, d’un point de vue pratique”,
Congress of the Société de Philosophie Analytique, Paris. 4-6 May.
“Whether scientists should try to go it alone ”,
5th Sydney-Tilburg Conference: The Progress of Science, Tilburg University. 25-27 April.
- 2011 “Whether scientists should try to go it alone”,
The Collective Dimension of Science, Université de Nancy 2. 8-10 Dec.
“What numerical methods are not. The case of multilayered simulations”,
Numerical Methods and their Philosophical Analysis, IHPST (Paris). 3-4 Nov.
“Whether scientists should publish intermediate results”,
Congress of the European Philosophy of Science Association 2011, Athenes (Greece). 5-8 October.
- 2010 “In practice, is quantum mechanics a unified theory? On the impact of multiple interpretations”,
Frontiers of Fundamental Physics 11, Université de Paris 7. 6-9 July.
“Statistical simulations with imaginary time path integral: only one computational model?”,
Models and Simulation 4, Toronto University (Canada). 7-9 May.
- 2009 “Comment choisir entre plusieurs interprétations d’une théorie ? Le cas de la mécanique quantique”
3rd congress of the Société de Philosophie des Sciences, Paris. 12-14 Nov.
“En quel sens la coexistence de plusieurs interprétations d’une théorie peut-elle être normale ?”,
Congrès de la Société de Philosophie Analytique, Université de Genève (Switzerland). 2-5 Sept.
“The coexistence of several quantum interpretations and the fruitfulness of scientific works »,

Other oral communications (*= invited).

- 2021 * “Améliorer l'impartialité de l'expertise scientifique”,
17^e Assises Hospitalo-Universitaires, Lille Hospital. 9-10 Dec.
- * “Décisions face au risque : de l'importance de bien formuler le problème ”,
Seminar “Risques, Incertitudes et Décisions ”, Université Paris Dauphine. 6 April.
- * “Explaining scientific collaboration: a general functional account”,
Seminar of the APC – Laboratoire Astroparticule et Cosmologie, Univ. Paris 7. 11 Feb.
- 2020 * “Expliquer la collaboration scientifique”,
Thursdays of the history and philosophy of science, ENS, Paris. 24 Sept.
- * “Le principe de précaution est-il bien raisonnable ?”,
Les amphis du savoir, Espace Mendès-France, Poitiers. 5 Feb.
- 2019 * “Sur l'étendue du principe de précaution. Lorsque la précaution rencontre la discrimination”,
Precaution seminar, MSHS Poitiers. 25 June.
- 2018 * “Santé ! Assurances et discrimination”,
Workshop “Risques et vulnérabilités”, MSHS Poitiers. 6 December.
- “Santé ! Assurances et discrimination”,
MAPP seminar, Université de Poitiers. 21 November.
- * “Belief aggregation and epistemic values”,
Collective opinion and belief aggregation, ÉNS, Paris. 28-29 May.
- 2017 * “Choosing between quantum interpretations”,
Quantum Interdisciplinary Sciences Seminar, Institut Néel, Grenoble. 12 September.
- * “Sur le vote à la majorité dans des comités d'expertise”,
Political epistemology workshop, Archives Poincaré & SND, Paris. 30 June.
- * “On the scope of the Precautionary Principle. When precaution meets discrimination”,
Why be cautious?, Bern University, Switzerland. 4-5 May.
- “Scientific expertise and risk aggregation with threshold”,
“No need for a secret ballot? How to reduce reputational cascades in expert committees”,
Group decision-making in scientific expert committees, Tilburg University. 12-13 April.
- “On discrimination in health insurance”,
TiLPS seminar in epistemology and philosophy of science, Tilburg University. 9 Feb.
- 2016 “No need for a secret ballot? Reputational cascades in deliberative groups”,
TiLPS seminar in epistemology and philosophy of science, Tilburg University. 24 November.
- * “No need for a secret ballot? How to reduce reputational cascades in expert committees”,
Dutch Social Choice Colloquium, Erasmus University Rotterdam (Pays-Bas). 18 November.
- * “ Qu'est-ce que la mécanique quantique ? ”,
Vrin bookshop, festival “Quartier du Livre”, Paris v^e, 24 May.
- “On the coherence of the Precautionary Principle as a decision rule”,
Philosophy of the Precautionary Principle, Tilburg University. 3 May.
- “Scientific expertise, risk assessment, and majority voting”,
TiLPS seminar in epistemology and philosophy of science, Tilburg University. 16 March.
- * “L'agrégation des probabilités et la comparaison avec un seuil”,
seminar Décision, Rationalité, Interaction, IHPST, Paris. 18 Feb.

- 2015 “La modélisation des cascades de réputation dans les groupes délibératifs”,
Modélisation des délibérations et des décisions collectives, MSH Lorraine, Nancy. 17-18 Nov.
- “Explaining scientific collaboration”,
TiLPS seminar in epistemology and philosophy of science, Tilburg University. 2 Sept.
- * “Modèles du jugement avec probabilités quantiques : de nouveaux tests empiriques”,
seminar Probabilité, Décision, Incertitude, IHPST, Paris. 22 May.
- “Testing quantum models for question order effects and for the conjunction fallacy”,
Quantum models of cognition, MSHS du Sud-Est, Nice. 8 jan.
- 2014 “Tester les modèles quantiques du jugement – présentation du projet Quantumtest”,
MSHS du Sud-Est, Nice. 25 November.
- 2013 « Why should scientific collaborations form? Modeling from the micro »,
Modeling epistemic and scientific groups, MSH Lorraine, Nancy. 25-26 Nov.
- * “L'équivalence empirique des interprétations de la mécanique quantique”,
SPHERE graduate seminar, Université Paris Diderot. 13 November.
- * “Représenter spatialement pour calculer, non pour visualiser”,
Lille-Gent seminar, MESHS, Lille. 25 June.
- * “La multiplicité des explications scientifiques ”,
Les niveaux d'explication en physique, IHPST, Paris. 20 June.
- 2012 “Why should scientific collaborations form? Modeling from the micro”,
Epistemic groups and collaborative research in science, Archives H. Poincaré, Nancy. 17-19 Dec.
- “Stratégies de publications en science”,
Multi-disciplinary workshop, MSH Lorraine, Nancy. 22 March.
- 2010 * « Une introduction aux enjeux philosophiques en mécanique quantique »,
Philosophy department, Université de Nantes. 30 March.
- * Commentateur, *colloque Fondements de la mécanique quantique et information quantique*.
École Normale Supérieure, Paris. 8 janvier.
- 2005 * “Spin chain simulations with a meron cluster algorithm ”,
Institut de Physique, Humboldt Universität zu Berlin. 25 Aug.

Posters

- 2019 “Aggregating degrees of beliefs with thresholds”
et “In Praise of Contradiction: How to Help Deliberative Groups Uncover What They Believe”
Deliberation, Belief Aggregation, and Epistemic Democracy II, Univ. Cergy-Pontoise. 11-13 June.
- 2013 « Why should scientific collaborations form? Modeling from the micro »,
Decision, Games and Logic 2013, KTH Stockholm (Sweden). 17-19 June.

Teaching

A note on the teaching levels:

Licence (L1, L2, L3) = first 3 years, roughly undergraduate students.

Master (M1, M2) = 2 years after the Licence, roughly graduate students.

DU Capes Agreg = students preparing for the competitive exams of the “Capes” and of the “Agrégation”, to become a teacher in highschools or universities. They often have a Master.

Université de Poitiers, Philosophy department

2020-2021	DU Capes Agreg (5h)	Dissertations and oral training
	M2 & DU Agreg (24h)	<i>Metaphysics of science</i>
	L3 (27h)	<i>Contemporary epistemology</i>
	L2 (24h)	<i>Philosophy of logic – What is truth?</i>
	L1 (24h)	<i>Propositional logic</i>
2019-2020	DU Capes Agreg (5h)	Dissertations
	M2 & DU Agreg (24h)	<i>Scientific representation</i>
	L3 & DU Agreg (27h)	<i>Contemporary epistemology</i>
	L2 (24h)	<i>Propositional logic</i>
	L2 (24h)	<i>Philosophy of logic – What is truth?</i>
	L1 (24h)	<i>Propositional logic</i>
L1 (24h)	<i>Philosophy of science – What is a scientific proof?</i>	
2018-2019	DU Capes Agreg (10h)	Dissertations and oral training
	L3 & DU Agreg (27h)	<i>Philosophy of science: time</i>
	L2 (24h)	<i>Propositional logic</i>
	L2 (24h)	<i>Philosophy of logic – What is truth?</i>
	L1 (24h)	<i>History of science</i>
	L1 (24h)	<i>Philosophy of science – What is a scientific proof?</i>

Université Grenoble Alpes, Philosophy department

2017-2018	PhD students (6h)	<i>Scientific integrity</i>
	M2 (24h)	<i>Sciences, Techniques and Society – Scientific expertise</i>
	M2 (4h)	<i>Research methodology</i>
	M1 (24h)	<i>Philosophy of science</i>
	M1 (24h)	<i>History and philosophy of science: quantum mechanics</i>
	L3 (24h)	<i>Contemporary epistemology</i>
	L2 (24h)	<i>Methodology of text commentary — Kant</i>
	L1 à L3 (24h)	<i>History of science</i>

ÉNS de Cachan, Physics department

2008-2018	Prépa Agreg (10h)	<i>History of physics</i>
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Tilburg University (The Netherlands), Philosophy department

2015-2016	Master (3h)	<i>Science and Democracy</i>
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Versailles region, highschool teachers

2014-2015 Teachers (4h) *Philosophy of thermodynamics*

Université de Lorraine, Philosophy department

2013-2015 Master 1 (10h) *Science, philosophy, society*

Université Lille 3, Philosophy department

2013-2014 L3 (24h) *Contemporary epistemology*
L3 (24h) *Philosophy in English — empiricism*
L3 (14h) *Scientific culture*
L2 (24h) *History of science*
L2 (24h) *Philosophy of science*
L1 (24h) *Propositional logic*
L1 (24h) *Scientific culture*

Université Lille 1, Physics department

2012-2013 M2 (15h) *Qu'est-ce que la science ?*
M1 (24h) *Histoire de l'optique, de Descartes à Fresnel*
L3 (24h) *La naissance de la science moderne*
L2 (16h) *History of science*
L1 (24h) *TP de physique*

Université de Bourgogne, Sciences department

2011-2012 L1 (25h) *History of science*

ÉNS de Cachan, Physics department

2008-2011 L3 and Prépa Agreg *Practicum in physics (optics, quantum mechanics)*

2022-2023 **Physics examiner** in “classes préparatoires” (60h), Baimbridge highschool, Pointe-à-Pitre.

2008-2011 **Physics examiner** in “classes préparatoires” (60h/year), Buffon highschool, Paris.