

Quentin Ruyant

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Area of specialisation:

Epistemology of Science, Metaphysics of Science, Philosophy of Physics.

Area of competence:

Philosophy of Science, Philosophy of Language, Logic and Philosophy of Mathematics, Epistemology

PROFESSIONAL APPOINTMENTS

- 2021 – Marie Curie Sklodowska-Curie Postdoctoral Fellowship
Universidad Complutense de Madrid (UCM).
The roles of modalities in scientific representation. Supervisor: Mauricio Suárez
- 2019 – 2021 Postdoctoral Fellowship
Universidad Nacional Autónoma de México (UNAM). Supervisor: Elias Okon.
- 2017 – 2019 Lecturer, UCLouvain
- 2013 – 2016 Lecturer, Université de Rennes 1
- 2002 – 2012 Software Engineer
Cap Gemini (Rennes), Alten (Lannion and Rennes), Netevent Solution (Paris), Must National (internship, Bangkok).

EDUCATION

- 2013 – 2017 Ph.D. in Philosophy (Ministerial doctoral contract)
Université de Rennes 1 / UCLouvain
Thesis: “L'empirisme modal”. Defended on 29th September 2017.
Jury: Pierre Joray (Advisor, Professor, Université de Rennes 1)
Alexandre Guay (Co-advisor, Professor, UCLouvain)
Anouk Barberousse (Professor, Université Paris-Sorbonne)
Otávio Bueno (Professor, University of Miami)
Filipe Drapeau-Vieira-Contim (Lecturer, Université de Rennes 1)
Peter Verdée (Lecturer, UCLouvain)
- 2012 – 2013 Master 2 Philosophie des normes, Université de Rennes 1
Rank: 2nd. Master’s thesis on structural realism (18/20).
- 1996 – 2002 Engineering school, Institut Supérieur d’Électronique du Nord (ISEN)
Includes two-year preparatory classes for higher education in science.
Specialisation units: molecular electronics, astrophysics, artificial intelligence, advanced algorithmics, image processing, infographics.

VISITORSHIPS AND EXTRA-TRAINING

- 2023 Center for the philosophy of science and society, UCLouvain (1 week)
Collaboration with Peter Verdée on possible situation semantics
- 2017 Descartes Centre for the History and Philosophy of Science and the Humanities, Utrecht University (3 months)
Research on relational and perspectival interpretations of quantum mechanics, in interaction with Denis Dieks, Guido Bacciagaluppi and Fred Muller.
- 2013 SoPhA Summer school: “Methodes et fondements des sciences”

PUBLICATIONS

Book

- 2021 *Modal Empiricism: Interpreting Science Without Scientific Realism*, Springer Nature, ISBN: 978-3-030-72349-1. doi: 10.1007/978-3-030-72349-1

Published Peer-Reviewed Research Articles

- “Idealisations and the no-miracle argument”, in *From Contradiction to Defectiveness to Pluralism in Science: Philosophical and Formal Analyses*, Synthese Library (forthcoming)
 - “Les valeurs dans la representation scientifique”
Lato Sensu (forthcoming)
- 2023 “Consistent Histories Through Pragmatist Lenses”
Studies in History and Philosophy of Science **98**, 40–48
doi: 10.1016/j.shpsa.2023.01.001
- 2022 “On the Relationship Between Modelling Practices and Interpretive Stances in Quantum Mechanics”
Foundations of Science **27**, 387–405
doi: 10.1007/s10699-020-09774-x
- 2021 “Symmetries, Indexicality and the Perspectivist Stance”
International Studies in the Philosophy of Science **34/1**, 21–39
doi: 10.1080/02698595.2021.2001723
- 2021 “True Griceanism: Filling the Gaps in Callender and Cohen’s Account of Scientific Representation”
Philosophy of Science **88/3**, 533–553
doi: 10.1086/712882
- 2021 “Semantic Realism in the Semantic Conception of Theories”
Synthese **198**, 7965–7983
doi: 10.1007/s11229-020-02557-8

- 2020 “Perspectival Realism and Norms of Scientific Representation”
European Journal for Philosophy of Science **10/2**
doi: 10.1007/s13194-020-00285-x
- 2020 “The Inductive Route Towards Necessity”
Acta Analytica **35**, 147–163
doi: 10.1007/s12136-019-00402-3
- 2019 “Structural Realism or Modal Empiricism?”
The British Journal for the Philosophy of Science **70/4**, 1051-1072
doi: 10.1093/bjps/axy025
- 2018 “Can We Make Sense of Relational Quantum Mechanics?”
Foundations of Physics **48/4**, 440-455
doi: 10.1007/s10701-018-0156-1
- 2016 “Le réalisme structural face au problème de la mesure”
Lato Sensu **3/1**, 43-51
doi: 10.20416/lrsrps.v3i1.233
- 2011 “The Subjective Interpretation of Quantum Physics”
Neuroquantology **9/4**, 621-635
doi: 10.14704/nq.2011.9.4.435

Book Reviews

- 2021 “A Big Picture Perspective on the Philosophy of Chemistry”
Metascience **30/2**, 293-296
doi: 10.1007/s11016-021-00636-1
- 2018 “Compte rendu de L’observation scientifique, aspects philosophiques et pratiques de Vincent Israel-Jost”
Lato Sensu **5/2**, 41-43
doi: 10.20416/LSRSPS.V5I2.6

Articles Under Review

- “Two Senses of Representation in Science”
“Lagrangian Possibilities”, co-author: Alexandre Guay
“Indexicality, Bayesian Background and Self-Location in Fine-Tuning Arguments”

PRESENTATIONS

Peer-reviewed Conferences and Workshops

- 2023 *The Necessity of Metaphysics*
Universidad Complutense de Madrid, Spain (October)
“What Could a Pragmatist Metaphysics Be?”
- 2023 *International Ontology Congress*
San Sebastián, Spain (October)
“Consistent Histories Through Pragmatic Lenses”

- 2023 *The 9th biennial meeting of the European Philosophy of Science Association*
Belgrade, Serbia (September)
“Situated Possibilities”, symposium “Modalities in Scientific Representation”
- 2023 Conference: *Inductive Metaphysics: Insights, Challenges and Prospects*
HHU Düsseldorf, Germany (August)
“Possible Situations and Induction Towards Necessity”
- 2023 Conference: *The Value of Scientific Representation*
NOVA University of Lisbon, Portugal (June)
“Values and Levels of Abstraction in Scientific Representation”
- 2023 Conference: *Modal Metaphysics: Issues on the (Im)Possible (I)X*
Slovak Metaphysical Society, Bratislava, Slovakia (June)
“Induction Towards Necessity”
- 2023 *4th Workshop of the OLOFOS group: From Science to Metaphysics?*
UCLouvain, Belgium (May)
“What Kind of Existence does Entity Realism Commits Us to?”
- 2022 Congr s triennal de la SoPhA: *Les valeurs du savoir*
Universit  de Neuch tel, Switzerland (July)
“Une s mantique des situations possibles pour les th ories scientifiques”
- 2022 Workshop: *Modalities in Scientific Representation*
Universidad Complutense de Madrid, Spain (May)
“Possible Situation Semantics for Scientific Theories”
- 2022 *VIII International Workshop on Quantum Mechanics and Quantum Information*
Online / Universidade Federal de Santa Catarina, Brazil (April)
“Modal Empiricism and Quantum Mechanics”
- 2021 Congr s de la SPS: *Sciences et scientificit *
Universit  de Mons, Belgium (Septembre)
“Two Senses of Representation”
- 2021 Zoom Conference: *Realisation and Composition Across the Sciences*
Online / University of Bristol, United Kingdom (June)
“What Kind of Explanations are Reductive Explanations?”
- 2020 *Segundo Coloquio Ciencia, Filosof a y Sociedad*
Universidad Nacional Aut noma de M xico, Mexico (November)
“Pluralismo epist mico y realismo semantico”
- 2020 *Terceras Jornadas Posdoctorales*
Universidad Nacional Aut noma de M xico, Mexico (February)
“El papel de las modalidades en la representaci n cient fica”
- 2019 Conference: *Quantum Mechanics: Paradigm or Ontology of Nature?*
Stony Brook University, United States of America (September)
“On the Relationship between Stances and Formulations in Quantum Mechanics”

- 2019 Conference: *Understanding Defectiveness in Science*
Universidad Nacional Autónoma de México, Mexico (June)
“Idealisations and the no-miracle argument”
- 2019 *Annual Philosophy of Science Conference*
Inter-university Center, Dubrovnik, Croatia (April)
“An inductivist response to the no-miracle argument”
- 2018 Congrès triennal de la SoPhA: *Le continu et le discret*
UCLouvain, Belgium (July)
“Against semantic realism: the pragmatics of scientific theories”
- 2017 Conference: *Direct empirical status and the ontology of symmetries in physics*
UCLouvain, Belgium (July)
“Symmetries and indexicals”
- 2016 Congrès de la SPS: *Le changement dans les sciences*
Lausanne, Switzerland (June)
“L'empirisme modal”
- 2015 *4ème rencontres doctorales internationales en philosophie des sciences*
Université de Lorraine, France (October)
“Le contenu empirique d'une théorie est-il modal ?”
- 2015 Congrès triennal de la SoPhA: *La philosophie analytique au 21ème siècle*
UQAM et Université de Montréal, Canada (June)
“Pourquoi nous n'avons pas besoin d'ontologie primitive”
- 2014 Congrès de la SPS: *Métaphysique des sciences*
Universités de Lille 1 et Lille 3, France (June)
“Le réalisme structural face au problème de la mesure”
- 2013 Workshop: *Philosophie des sciences*
Université de Rennes 1, France (May)
“Réalisme structural et modalités”

Seminar Presentations

- 2022 Seminar “Epistémologie des Sciences du Langage”, CNRS/Paris Nanterre (October)
“Modèles contre théories, entre pluralisme et unité de la science”
- 2022 Seminar: “Taller Complutense de Filosofía Analítica” (April)
“A Possible Situation Semantics for Scientific Theories”
- 2021 Seminar: “Work in progress”, UCLouvain (April)
“On the Relation Between Stances and Modelling Practices in Quantum Mechanics”
- 2020 Seminario de investigadores, Universidad Nacional Autónoma de México (February)
“True Griceanism about Scientific Representation”
- 2020 Seminar: “Work in progress”, UCLouvain (January)
“True Griceanism about Scientific Representation”
- 2019 Seminario de investigadores, Universidad Nacional Autónoma de México (May)
“Three levels of modalities in scientific representation”

- 2018 Seminar: “Work in progress”, UCLouvain (September)
“An inductive response to the no-miracle argument”
- 2018 Seminar: “Work in progress”, UCLouvain (April)
“Theories as languages”
- 2016 Séminaire des doctorants, Université de Saint-Louis, Brussels (October)
“L'induction sur les modèles d'une théorie comme inférence vers la nécessité”
- 2016 Seminar: “Work in progress”, UCLouvain (October)
“L'induction sur les modèles d'une théorie comme inférence vers la nécessité”
- 2016 Seminar: “Work in progress”, UCLouvain (March)
“Les modalités naturelles sont-elles sous-déterminées par l'expérience ?”
- 2015 Lagon weekly seminar, Université de Rennes 1 (September)
“Qu'est-ce qu'interpréter une théorie scientifique ?”
- 2015 Lagon weekly seminar, Université de Rennes 1 (March)
“Peut-on être réaliste et empiriste ?”
- 2014 Lagon weekly seminar, Université de Rennes 1 (October)
“La mécanique quantique, un défi pour la métaphysique ?”

TEACHING EXPERIENCE

Universidad Complutense de Madrid (UCM)

- Scientific Realism (2022, Spanish)
Graduate philosophy of science students (52h, ~20 students)

Universidad Nacional Autónoma de México (UNAM)

- Explanations in Science (2020, online, Spanish)
Graduate philosophy of science students (48h, ~5 students)
- Scientific Representation (2019, English)
Graduate philosophy of science students (48h, ~5 students).

UCLouvain

- Introduction to Philosophy of Science (2018 – 2019, French)
Undergraduate science students (30h, ~200 students)
- Co-organiser of a Humanities Seminar (2018 – 2019, French)
Undergraduate medicine students (30h, ~200 students).
- History of Analytic Philosophy (2017 – 2018, French)
Undergraduate philosophy students (30h, ~10 students).

Université de Rennes 1

- Scientific Realism and Empiricism (2013 – 2016, French)
Undergraduate philosophy students (26hx2 years, ~30 students)
- The Metaphysics of Science (2013 – 2016, French)
Undergraduate students (26hx2 years, ~30 students).
- Tutorial Classes in Predicate Logic (2013 – 2016, French)
Undergraduate students (26hx2years, ~30 students).

ACADEMIC SERVICE

Journal Referee

- British Journal for the Philosophy of Science, Studies in History and Philosophy of Science, European Journal for Philosophy of Science, Erkenntnis, Synthese, Journal for General Philosophy of Science, Foundations of Science, Analytic Philosophy, Acta Analytica, Res Philosophica, Critica, Ratio, Zagadnienia Filozoficzne w Nauce (Philosophical Problems in Science), Filozofia Nauki (the philosophy of science), Universe, Asian Journal of Philosophy, Humanities and Social Sciences Communications, Lato Sensu, l'Encyclopédie philosophique, Implications philosophiques, Organon F, UNAM graduate conference

Student Supervision

- Supervisor of undergraduate thesis (UNAM).
- Member of doctoral thesis committee (UNAM).

Conference Organisation:

- Visit of Richard Healey for 2 seminars in collaboration with Physics Faculty, UCM (2023)
- Hybrid Symposium "Modalities in Representation". Michela Massimi, Tarja Knuuttila and Andrea Loettgers, Mauricio Suárez, Quentin Ruyant. EPSA Congress (2023)
- Hybrid Workshop "Modalities and Representation". Timothy Williamson, Roman Frigg, Mauricio Suárez, Tarja Knuuttila and Andrea Loettgers, Ylwa Sjöling, Jaakko Kuorikoski, Quentin Ruyant. UCM (2022)
- Lagon, weekly seminar at Université de Rennes 1 (2014 – 2015)

IT Assistant for Philosophy Journal Lato Sensu (2016 – 2017)

PUBLIC OUTREACH

- 2022 "Les multiples nuances du courant réaliste"
La recherche **571** (magazine)
- 2018 Led training session for secondary-school philosophy teachers,
Académie de Lille on structural realism (April)
- 2016 Online encyclopedia entry: "Le réalisme structural", *L'encyclopédie philosophique*
<http://www.encyclo-philos.fr/realisme-structural-a/> (academic entry)
<http://www.encyclo-philos.fr/realisme-structural-gp/> (wider audience entry)
- 2016 "Le réalisme scientifique à l'épreuve de la mécanique quantique"
Les yeux brouillés **1** (magazine)
- 2016 *Brussels Sceptics in the Pub* (general audience conference), Brussels (October)
"La philosophie est-elle utile ?"
- 2014, 2016, 2020
Invited speaker on the podcast "scepticisme scientifique"
- Since 2014
Blog dedicated to the popularisation of philosophy of science
<http://philosophiedessciences.blogspot.com>

PRIZES AND CERTIFICATES

2019, 2020

Marie Sklodowska-Curie Actions Seal of Excellence

Project: "The Roles of Modalities in Scientific Representation"

OTHER SKILLS

Languages

- French: Mother tongue (C2)
- English: Fluent (C2), TOEIC, Cambridge English: Advanced Certificate (CAE)
- Spanish: Fluent (C2), intensive courses at UNAM and UCM. SIELE Certificate.
- Notions of Dutch, German and Thai (A1).

I.T. Skills

- Programming (Latex, Java, C, Flex, PHP, Web/JavaScript, C, etc.)
- Graphic design / logo design (Illustrator, Photoshop)

REFERENCES

Mauricio Suárez

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Otávio Bueno

Professor of Philosophy, University of Miami

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Alexandre Guay

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Anouk Barberousse

Professor of Philosophy, Sorbonne Université

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