

Soazig Le Bihan

Curriculum Vitae

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AOS: Philosophy of Physics, Philosophy of Science, Philosophy of Ecology

AOC: History of Modern Philosophy, Philosophy of Law

Education

Ph.D. in Philosophy. University of Nancy (France) and Bielefeld (Germany). 2008.

Thesis Understanding Quantum Phenomena.

Committee Prof. Guido Bacciagaluppi (Aberdeen), Prof. Harvey Brown (Oxford), Prof. Michel Bitbol (Sorbonne), Prof. Martin Carrier (Bielefeld), Prof. Michael Detlefsen (Notre-Dame), Prof. Gerhard Heinzmann (Nancy).

Bachelor of Science in Fundamental Physics. University of Paris VI Jussieu. 2004.

D.E.A. in Philosophy. University of Paris IV – Sorbonne (equivalent A.B.D.). 2001.

Agrégation in Philosophy. 2000.

Maîtrise in Philosophy, University of Paris X - Nanterre. 1999.

Bachelor of Arts in Philosophy. University of Paris I – Sorbonne. 1998.

Appointments

2012-present	Associate Professor. Department of Philosophy. University of Montana.
2008-present	Coordinator of the Prelaw Program. University of Montana.
2013	Tenure. University of Montana.
2011-Fall	Visiting Fellow. Center for Philosophy of Science. Pittsburgh.
2008-2012	Assistant Professor. Department of Philosophy. University of Montana.
2006-2008	Sawyer Fellow. Humanities Department. Illinois Institute of Technology.
2005-2006	Graduate Fellow. University of Bielefeld.
2002-2005	Allocation Couplée. University of Nancy, University of Jussieu.
2001-2002	Graduate Fellow. Department of Philosophy. Princeton University.
1997-2001	École Normale Supérieure.

Scholarship Publications

Le Bihan, Soazig and Iheany Amadi (forth.). “On Epistemically Detrimental Dissent: Contingent Enabling Factors v. Stable Difference Makers”. *Philosophy of Science* (2016 PSA Proceedings).

Le Bihan, S. (forth.), “Enlightening falsehoods: a modal view of scientific understanding”. in *Explaining Understanding: New Perspectives from Epistemology and Philosophy of Science*, ed. by Grimm, S., Baumberger C., and Sabine Ammon, Routledge.

Le Bihan, S. (2014), “How Understanding Matters – Or not”. in *Probing the Meaning of Quantum Mechanics: Physical, Philosophical, Mathematical, and Logical Perspectives*, ed. by C. de Ronde, S. Aerts, D. Aerts, World Scientific. pp. 127-42

Le Bihan, S. (ed.) (2013a), *Précis de Philosophie de la Physique*, Vuibert.

Le Bihan, S. (2013b), “Le problème de la localité en mécanique quantique”, in *Précis de Philosophie de la Physique*, Vuibert, pp. 26-52.

Le Bihan, S. (2013c), “Qu’est-ce que la philosophie de la physique”, in *Précis de Philosophie de la Physique*, Vuibert, pp.1-25.

Le Bihan, S. (2012), “Defending the semantic view: what it takes.”, *European Journal for the Philosophy of Science*, 2, 3, pp. 249-74.

Le Bihan, S. (2009a), “Des mondes et des particules, Comment on Jean Bricmont”, in *Philosophie de la physique quantique*, Vuibert.

Le Bihan, S. (2009b), “Fine ways to fail to secure local realism”, *Studies in History and Philosophy of Modern Physics*, 40, 2, pp. 142-50.

Le Bihan, S. (2008a), “Book Review. L.G. Johansson. Interpreting Quantum Mechanics”, *International Studies in Philosophy of Science*, 22, 3, pp. 330-33.

Le Bihan, S. (2008b), “La conception sémantique des théories scientifiques, En quoi a-t-elle pu rester ‘sémantique?’”, *Matière Première*, 3, pp. 35-57.

Le Bihan, S. (2008c), *Understanding Quantum Phenomena*, PhD thesis, Bielefeld University / University of Nancy, Bielefeld, Nancy.

Le Bihan, S. (2007), “What status should be given to the quantum description of the world?”, in *Rethinking the Comparative Evaluation of Scientific Theories, Stabilities, Ruptures, Incommensurabilities*, ed. by L. Soler, H. Sankey, and P. Hoyningen-Huene, vol. 255, Boston Studies in the Philosophy of Science, Springer.

Le Bihan, S. (2006), “La conception sémantique des théories scientifiques, En quoi a-t-elle pu se dire ‘sémantique?’”, *Matière Première*, 1, pp. 215-250.

Works in Preparation

Modal Understanding (book).

Probability conditions are not locality conditions.

French Translation of *The Scientific Image*, by Bas van Fraassen, with Guillaume Garetta.

Invited Talks

June 2016. Invited Commentator. Varieties of Understanding Capstone Conference. Fordham University.

March 2016. (with Iheanyi Amadi). On Epistemically Detrimental Dissent: Contingent Enabling Factors v. Stable Difference Makers. Philosophy Forum, University of Montana.

January 2016. La science ou l'exploration des possibles. Jeudis de l'Histoire et Philosophie des Sciences. École Normale Supérieure, Paris.

June 2015 Commentators-at-large Panel, Varieties of Understanding Mid-Point Conference, Fordham University.

November 2014. Scientific understanding without realism, Philosophy Forum, University of Montana.

April 2013. La philosophie de la physique aujourd'hui. University of Lyon.

April 2013. Les relations causales sous-jacentes aux corrélations de Bell. University of Lyon.

April 2013. La compréhension scientifique par delà la vérité. Paris IV Sorbonne.

April 2013. La philosophie de la physique aujourd'hui. University of Lille.

March 2013. La philosophie de la physique aujourd'hui. Institut de Physique, University of Rennes.

March 2013. La philosophie de la physique aujourd'hui. Archives Poincaré, University of Nancy.

March 2013. La philosophie de la physique aujourd'hui. IHPST, Paris.

March 2013. Les relations causales sous-jacentes aux corrélations de Bell. Ecole Normale Supérieure, Paris.

October 2011. Enlightening falsehoods. Center for Philosophy of Science, University of Pittsburgh.

May 2011. Why understanding matters – or not. IHPST, Paris.

April 2010. Bell-type correlations: the hidden causal picture re-assessed. Philosophy Forum. University of Montana.

Jan. 2010. Bell-type correlations: the hidden causal picture re-assessed. Ecole Normale Supérieure, Paris.

May 2008. Defending the semantic view: what it takes. Entanglement and Complexity Conference, University of Nice-Sophia Antipolis.

Feb. 2008. Bell-type correlations: the hidden causal picture re-assessed. Center for Philosophy of Science, University of Pittsburgh.

Jan. 2008. Defending the semantic view: what it takes. Philosophy Colloquium. University of South Carolina.

May 2007. Worlds and particles. Comment on Jean Bricmont for the Pierre Duhem Conference. Ecole Normale Supérieure, Paris.

Mars 2007. Logical models vs. scientific models: a false dilemma for the semantic view. Philosophy Forum, University of Missoula.

Mars 2007. Philosophical Interpretations of quantum mechanics. Alliance Française, University of Missoula.

December 2006. A Fine lecture. Humanities Department Colloquium, I.I.T.

Mai 2006 Sur l'interprétation du théorème de Bell par Fine. Graduate Conference IHPST, Paris.

April 2006. Sur quelques mythes concernant la conception sémantique des modèles scientifiques. Centre Cavailles, Ecole Normale Supérieure, Paris.

January 2006. The interpretations of quantum mechanics: the current state of play. Physics Seminar, University of Bielefeld.

Nov 2005. Statistical independence in Bell's theorem: locality or rationality. Neuere Themen der Wissenschaftsphilosophie Seminar, University of Bielefeld.

Oct 2005. Statistical independence in Bell's theorem: locality or rationality. Young Quantum Meetings, CREA, Brussels.

August 2005. Statistical independence: locality or rationality. Summer School Philosophy, Probability and Physics, Konstanz.

June 2005. L'indépendance statistique entre localité et rationalité. Graduate Conference, Paris VII.

March 2005. Statistical Independence: Locality or Rationality. Work in Progress graduate seminar, University of Pittsburgh.

March 2005. Les interprétations de la mécanique quantique. University of Nancy.

Dec. 2004. Statistical independence : locality or rationality? Conference: Philosophy, Physics and Probability, Paris.

March 2003. Saving incommensurability: semantic theory of meaning or semantic theory of science? Comment on Martin Carrier. Archives Poincaré, University of Nancy.

Conference Presentations

November 2016. On Epistemically Detrimental Dissent: Contingent Enabling Factors v. Stable Difference Makers. Co-presentation with Iheanyi Amadi. Philosophy of Science Association, Atlanta.

November 2014. Scientific understanding: a modal view. Co-presentation with Armond Duwell. Philosophy of Science Association Conference, Chicago.

June 2013. Enlightening falsehoods: scientific understanding beyond truth. Symposium on “Understanding and Realism”. Society for the Philosophy of Science in Practice Conference, Toronto.

Nov. 2008. Defending the semantic view: what it takes. Philosophy of Science Association Conference, Pittsburgh.

June 2006. In defense of the semantic conception of scientific models. HOPOS, Paris.

April 2006. Logical or scientific models: a false dilemma for the semantic view. 33rd Annual Dubrovnik Philosophy of Science Conference.

Jan. 2005. Que reste-t-il des lois de nature dans la conception sémantique des théories scientifiques?. Communication in the Symposium “What is the future for laws of nature?” for the First Congress of the Société de Philosophie des Sciences, Paris.

Sept. 2004. Experimental metaphysics from a certain perspective. 13th Meeting on the Foundations of Physics, York.

June 2004. What status should be given to the quantum description of the world? Answer to the communication by A. Zwirn, International Conference Rethinking the Comparative Evaluation of Scientific Theories, Nancy.

Nov. 2003. (with Anouk Barberousse) From physics to ontology? Answer to the communication Explanation, Emergence and Quantum-entanglement by A. Hütteman. Reduction and Emergence International Conference, Ecole Normale Supérieure, Paris.

Sept 2003. About non-locality: experience, theory, interpretation and the levels of legitimacy of scientific discourses. SOPHA, Montreal.

August 2003. Epistemological morals of a twenty year long meaningless discussion about non- locality. International Congress of Logic, Methodology and Philosophy of Science, Oviedo.

April 2003. Non-locality: a twenty year long meaningless discussion. International Congress of Philosophy of Science, Dubrovnik.

Scholarships and Grants

January 2015. Invited Professor, LabeX TransferS, Équipe république des savoirs, École normale supérieure, Paris.

2014. Merit Increase. University of Montana.

2013. International Activity Grant. University of Montana.

2012. Student Affairs Faculty Award. University of Montana.

Fall 2011. Visiting Fellow: Center for Philosophy of Science, University of Pittsburgh

Fall 2011. Faculty Professional Enhancement Grant. University of Montana.

2011. Merit Increase. University of Montana.

2006-2008. Sawyer Predoctoral Fellowship. Illinois Institute of Technology.

Spring 2005. DAAD Fellowship.

Fall 2005. Fellowship Université Franco-Allemande.

2004-2005. Graduate Fellowship. Bielefeld University.

2004. Huguette Delavault Fellowship. Association des Femmes Françaises Diplômées de l'Université.

2004. Conference Expenses Graduate Fellowship. 13th UK Meeting on the Foundations of Physics, York.

2003. Travel Grant. Comité National de Philosophie et d'Histoire des Sciences, LMPS Congress, Oviedo.

2002-2005. Mobility Graduate Fellowship “co-tutelle de thèse”. European Union.

2001-2002. Jane Eliza Procter Visiting Fellowship. Princeton University.

Other Publications and Presentations

Public Philosophy:

- Veritas Forum. Does science point to atheism? (650 attending). Feb. 2016
- Monthly Public Philosophy radio talk shows on KGVO Talk Back:
 - Feb. 2016: Science and Religion. With Joshua Swamidass,
 - March 2016: Veganism. With Albert Borgmann,
 - April 2016: Intrinsic v. utilitarian value of the environment. With Christopher Preston,
 - May 2016: Sex work. With Beth Hubble,
 - June 2016: Free Speech. With David Sherman,
 - July 2016: Theory and practice: teaching engaged ethics. With students from my summer ethics class,
 - August 2016: The Death Penalty. With Armond Duwell,
 - September 2016: Racism. With Tobin Shearer.

Editorial work for *Sciences Visions* (PSA Women's Caucus online publication)

- "On what it means for us to make the world a better place". April 2014.
- "Impostors unite!" October 2015.
- "A second best for inclusive teaching." May 2016.

Engaged Philosophy Interview: <http://www.engagedphilosophy.com/2016/09/05/soazig-le-bihan/>

May 2013. "Education and the Good Life." Keynote Address, Phi Kappa Phi annual banquet and induction ceremony.

Le Bihan, S. (2005), Entries in the Cultural Dictionary of French Language, Le Robert : "Invention" ; "Impression" ; "Steam" ; "Science" ; "Sea".

Teaching Competence

Graduate level	Philosophy of Physics; Foundations of Ecology; Philosophy of Science.
Advanced undergraduate	Philosophy of Physics; Philosophy of Ecology; Philosophy of Science; Philosophy of Probability; Modern Philosophy; Philosophy of Law.
Introductory	Intro to Philosophy; Philosophy of Science; Critical Thinking; Ethics; History and Philosophy of Science; Modern Philosophy; Ancient Philosophy; Philosophy of Law.
Other	LSAT preparation.

Teaching Activities at the University of Montana

Fall 2016. Designed and taught "Morality and Law" course.

Summer 2016. Designed online ethics course.

Spring 2016. Re-designed syllabus for History of Modern Philosophy course

Spring 2016. Chair of Thesis Committee. Iheanyi Amadi.

Spring 2016. Philosophy of Law course (uncompensated).

Summer 15. Introduced service component into ethics course

Fall 14. Introduced LSAT preparation course

Spring 13. Introduced PHL 391 Darwin and Design

Spring 13. Introduced HC 395 Prelaw Seminar (uncompensated)

Spring 13. Independent Study – Olivia Weber

Spring 11. Independent Study – Peter Conte

Spring 11. Senior Honors Thesis Faculty Mentor – Scott Rezvani

Spring 11. Senior Honors Thesis Faculty Mentor – Brittany Harris

Fall 2008-09. Sponsor of the Philosophy Society

Fall 08. I gave three lectures for the Wildlife Biology program in Mike Mitchell's graduate seminar on the history of science and the scientific method.

Fall 08. Independent study for Lewis Hooker.

Courses taught at the University of Montana

Note: I was 0.75 FTE (philosophy) between Fall 08 and Spring 13, and 1 FTE (0.5 philosophy, 0.5 prelaw) after that. The asterisk * denotes general education courses.

Semester	Course	Title	Enrollment
Fall 08	PHIL200*	Ethics: Great Traditions	123
	PHIL240*	History and Philosophy of Science	14
	PHL 496	Independent Study	1
Spring 09	PHIL200*	Ethics: Great Traditions	78
	PHIL252*	History of Modern Philosophy	33
Fall 09	PHIL200*	Ethics: Great Traditions	119
	PHIL452*	Descartes vs Hume	11
Spring 10	PHIL252*	History of Modern Philosophy	42
	PHIL411	Philosophy of Science	12
Fall 10	Maternity Leave		
Spring 11	PHIL252*	History of Modern Philosophy	31
	PHL490	Research	21
	Ind. Stud.	Philosophy of Science	1
	HC499	Honors Thesis	1
	HC499	Honors Thesis	1
Fall 11	Research Leave		
Spring 12	PHL262*	History of Modern Philosophy	40
	PHL501	Foundations of Ecology	5
Fall 12	PHL462	Hume: Origins of knowledge	10
Spring 13	PHL262*	History of Modern Philosophy	40
	PHL 391	Darwin and Design	8
	HC 395	Prelaw Seminar	20
	PHL 492	Philosophy of Physics	1
Fall 13	PHL501	Foundations of Ecology	8
	HC 395	Prelaw Seminar	16
Spring 14	Maternity Leave		
Fall 14	HONR 121*	Ways of Knowing	23
	HONR 391	Prelaw Seminar	21
	LSAT	LSAT Preparation Course	13
Spring 15	PHL262*	History of Modern Philosophy	40
Summer 15	PHL110*	Introduction to (Engaged) Ethics	12
Fall 145	PHL 501	Foundations of Ecology	11
	HONR 391	Prelaw Seminar	13
	LSAT	LSAT Preparation Course	9
Spring 16	PHL262*	History of Modern Philosophy	40
	PHL592	Philosophy of Law	3
Summer 16	PHL110*	Introduction to (Engaged) Ethics	online

University of Montana Service

2015-present. International Committee Member.

2008-present. Prelaw Program Coordinator.

2008-present. Faculty Evaluation Committee Member.

Spring 2016. Reviewer for the UMCUR.

2013-2014. Dean of the Law School Search Committee Member.

2008-2009. Union Representative.

Professional Service

Referee for the Austrian Science Fund

Referee for the *British Journal for the Philosophy of Science*

Referee for the *European Journal for Philosophy of Science*

Referee for *Igitur*

Referee for the *Journal of General Philosophy of Science*

Referee for the National Science Foundation

Referee for *Lato Sensu*

Referee for *Philosophia Scientiae*

Referee for *Philosophy of Science*

Referee for *Studies in History and Philosophy of Modern Physics*

Referee for *Synthese*

Member of the STS Panel for NSF grant proposal. Fall 2016.

Editorial Board Member of the PSA Women Caucus' online publication *Science Visions* since Fall 2014

Nominated for PSA governing Board. Spring 2016

Member of the Philosophy of Science Association

PSA Women Caucus member

Member of the Western Association of Prelaw Advisors

Member of the National Association of Prelaw Advisors