

# Soazig Le Bihan

*Curriculum Vitae*

October 2017

Philosophy Department LA 101  
University of Montana  
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**AOS:** Philosophy of Physics, Philosophy of Science, Philosophy of Ecology

**AOC:** History of Modern Philosophy, Philosophy of Law, Science and Values

## Education

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**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

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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

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Le Bihan, Soazig and Iheany Amadi (2017). “On Epistemically Detrimental Dissent: Contingent Enabling Factors v. Stable Difference Makers”. *Philosophy of Science*, 85:4.

Le Bihan, S. (2017), “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. pp.111-35.

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

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Modal Understanding (book).

No Quantum Threat to Special Relativity.

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

## Invited Talks

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April 2017. Unification, Explanation, and Understanding, Disentangled. Philosophy Forum. University of Montana

March 2017. What Philosophers of Science Learned from Ecology, and What Ecologists Can Learn in Return. Wildlife Graduate Seminar. University of Montana.

January 2017. Understanding Quantum Foundations. Invited Talk. Workshop “Models, Explanations, and Realism about Quantum Physics”. University of Leeds.

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.

January 2016. Qu’est-ce que la compréhension scientifique?. Invited Research Seminar. 4 sessions. LabeX Transfers. 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

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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.

## Awards, Scholarships and Grants

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2017. Outstanding Faculty Advising Award.

2016. Merit Increase. University of Montana.

January 2016. 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

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### Public Philosophy:

- May 2013. Education and the Good Life. Keynote Address, Phi Kappa Phi annual banquet and induction ceremony
- 2016. Panelist. Veritas Forum. Does science point to atheism? (650 attending).
- 2017. Moderator. Veritas Forum. Can there be a separation of Church and State? Politics and Religion.
- Monthly Public Philosophy radio talk shows on KGVO Talk Back.

### 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.
- "The Dawn", Dec. 2016
- "On Marathons, Cross Fit, and the Academic Life", August 2017.

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

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



## Teaching Competence

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

## Teaching Activities at the University of Montana

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Spring 2017. Independent Study. Rebecca Korf and Ryan Garnsey.

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

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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          |
|           | PHL501          | Foundations of Ecology            | 8          |
| Fall 13   | 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         |

| Semester    | Course                   | Title                            | Enrollment |
|-------------|--------------------------|----------------------------------|------------|
| Fall 15     | 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          |
|             | PHL 599                  | Thesis                           | 1          |
| Summer 16   | PHL110*                  | Introduction to (Engaged) Ethics | 18         |
|             | PHL 599                  | Thesis                           | 1          |
| Fall 16     | PHL 391                  | Morality and Law                 | 17         |
|             | HONOR 391 Prelaw Seminar | 21                               |            |
|             | PHL 599                  | Thesis                           | 1          |
| Spring 2017 | Sabbatical               |                                  |            |
|             | PHL 492                  | Independent Study                | 2          |
|             | PHL 599                  | Thesis                           | 1          |
| Summer 17   | PHL 110*                 | Introduction to Ethics           | 55         |

## Graduate Advising

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- Committee Member: Casie Dunleavy, Masters in Environmental Philosophy, The Companionship Model and Our Aging Animals: A Moral Framework, Spring 2012.
- Committee Chair: Iheanyi Amadi, Masters in Environmental Philosophy. Epistemically Detrimental Dissent in Climate Science. May 2017.

## University of Montana Service

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2015-present. International Committee Member.  
2008-present. Prelaw Program Coordinator.  
2008-present. Faculty Evaluation Committee Member.  
2016, 2017. UM community giving campaign representative  
2016, 2017. Reviewer for the UMCUR.  
2013-2014. Dean of the Law School Search Committee Member.  
2008-2009. Union Representative.

## Professional Service

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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 *Erkenntnis*  
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*  
Referee for the Proceedings of the *Logic, Methodology and Philosophy of Science 2012 International Congress*.  
Member of the STS Panel for NSF grant proposal. Fall 2016, Spring 2017.  
Member of Scientific Committee and Reviewer for the *Rencontres Doctorales Internationales en Philosophie des Sciences* (RDIPS), Socit de Philosophie des Sciences, Paris: 2016, 2017.  
Member of the Scientific Committee and Reviewer for the 2017 *Scientific Realism and the Quantum* (R&Q2017). University of Leeds. Spring 2017.  
Editorial Board Member of the PSA Women Caucus' online publication *Science Visions* since Fall 2014  
Philosophy of Science Association:

- Editorial Board Member, Science Visions, PSA Women's Caucus since 2014
- Nominated for PSA governing board: Spring 2016

- Member of the PSA Women's Caucus M.A.P. (Minority in Philosophy) committee
- Member of the 2018 PSA Women's Caucus Prize Symposium selection committee

Member of the Western Association of Prelaw Advisors

Member of the National Association of Prelaw Advisors