

# Brian Hill

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Nationalité britannique

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## EMPLOIS ACADEMIQUES

2012-	Chargé de recherche CNRS, affecté à GREGHEC (CNRS-HEC Paris)
2012-	Professeur affilié à HEC Paris
2009-2011	Professeur assistant au Département d'Economie et des Sciences de la Décision, HEC Paris
2007-2009	Professeur affilié à HEC Paris
2006-2007	Chercheur post-doctorant au GREGHEC (CNRS-HEC)
Juin-septembre 2000	Visiting Research Fellow au département de physique, Massachusetts Institute of Technology (Etats-Unis).
Juin-septembre 1999	Research Assistant, Labor Teilchenphysik (physique des particules), Paul Scherrer Institute (Suisse).

## FORMATION

2003-2006	<i>Doctorat de Philosophie</i> , Université Paris 1, mention très honorable avec félicitations à l'unanimité.
2003-2005	<i>Master de Mathématiques et Informatique</i> , « Logique Mathématique et Fondements de l'Informatique », Université Paris 7, mention très bien.
2002-2003	<i>DEA de Philosophie</i> , « Histoire et Philosophie des Sciences », Université Paris 1, mention très bien.
2001-2002	<i>Cambridge Advanced Certificate in Mathematics (Maîtrise de Mathématiques)</i> , University of Cambridge (UK), with distinction.
1998-2001	<i>BA Hons (Cantab.) Mathematics (Licence de Mathématiques)</i> , University of Cambridge (UK), triple first.

## PUBLICATIONS

### Published or forthcoming articles in refereed journals

- Common knowledge: a finitary calculus with a syntactic cut-elimination procedure, *Logique et Analyse*, accepted for publication (with F. Poggiolesi).
- Confidence and Decision, *Games and Economic Behavior*, 82: 675–692, November 2013, ([link](#)).
- Awareness and Equilibrium, *Synthese*, 190 (5):851-869, March 2013, ([link](#)).

- Confidence in Preferences, *Social Choice and Welfare*, 39(2): 273-302, July 2012, ([link](#)).
- Defending the Ramsey Test: What is wrong with Preservation?, *Mind*, 121: 131-146, January 2012 ([link](#)).
- An additively separable representation in the Savage framework. *Journal of Economic Theory*, 145(5): 2044-2054, September 2010 ([link](#)).
- Awareness Dynamics. *Journal of Philosophical Logic*, 39(2):113-137, April 2010 ([link](#)).
- A contraction-free and cut-free sequent calculus for propositional dynamic logic. *Studia Logica*, 94(1):47-72, February 2010 ([link](#)) (with F. Poggiolesi).
- Le problème dynamique de l'induction. *Dialogue*, 48(4):701-715, December 2009, ([link](#)).
- Living without state-independence of utilities. *Theory and Decision*, 67(4):405-432, October 2009 ([link](#)).
- When is there state-independence? *Journal of Economic Theory*, 144(3):1119-1134, May 2009 ([link](#)).
- Localiser la fiction: une autre approche de la réception des œuvres de fiction. *La licorne : revue de langue et de littérature française*, 88: 1-15, 2009.
- Towards a “sophisticated” model of belief dynamics. Part II : Belief Revision. *Studia Logica*, 89(3):291-323, August 2008 ([link](#)).
- Towards a “sophisticated” model of belief dynamics. Part I : The General Framework. *Studia Logica*, 89(1):81-109, June 2008 ([link](#)).

### Editorials of journal issues

- Logic of change, change of logic. *Synthese*, 171(2):227-234, November 2009 ([link](#)) (with H. van Ditmarsch and O. Majer).

### Published or forthcoming articles in refereed collective works

- Théorèmes de représentations et sémantique des concepts décisionnels. *Science et Décision*, D. Andler (ed), Vuibert, forthcoming (with M. Cozic).
- L'œuvre littéraire comme construction. Réflexions à partir de Roman Ingarden. *Roman Ingarden: Ontologie, Esthétique, Fiction*, J-M. Schaeffer and C. Potocki (eds). Editions des Archives Contemporaines, 2013.
- Fiction, Counterfactuals: the challenge for logic. *Unity of Science. Vol. II: Special Sciences*, S. Rahman and O. Pombo (eds). Springer, 2012 (pp277-299).
- Three Analyses of Sour Grapes. *Preference Change: Approaches from Philosophy, Economics and Psychology*, T. Grüne-Yanoff and S. O. Hansson (eds). Springer, Theory and Decision Library A, Dordrecht, 2009 ([link](#)).
- The Logic of Awareness Change, *Proceedings of ILCLI International Worskop on Logic and Philosophy of Knowledge, Communication and Action*. University of the Basque Country Press, 2007.

- Logicality: from a local point of view, *Yeditepe'de Felsefe Yearbook 6*, 2007.
- ‘Realistic’ Belief Dynamics, *Logica Yearbook 2006*, Filosofia, Prague, 2007.

### Editor of journal issues

- *Logic of Change, Change of Logic*, Special issue of *Synthese*, 171(2):227-234, November 2009 (with H. van Ditmarsch et O. Majer).

### Working papers

- Risk versus Ambiguity and International Security Design, [HEC Paris Research Paper No. ECO-2014-1032](#) (with T. Michalski).
- Dynamic Consistency and Ambiguity : A Reappraisal, *HEC Paris Research Paper No ECO/SCD-2013-983*.
- Unanimity and the Aggregation of Multiple Prior Opinions, *Cahiers de Recherche GREGHEC 959/2012*.
- Deferral, Incomplete Preferences and Confidence, *Cahiers de Recherche GREGHEC 940/2011*.

### Work in progress

- Incomplete Preferences and Confidence
- Confidence as a Source of Deferral
- Confidence in Beliefs and Decision Making
- Awareness and Deliberation
- Experienced-Based Decisions under Ambiguity (with M. Abdellaoui, E. Kemel & H. Maafi)
- An Analytic Calculus for the Logic of Proofs (with F. Poggiolesi)
- Representation Theorems and the Semantics of Decision-theoretic Concepts (with M. Cozic)

## COMMUNICATIONS

### Presentations (with committee)

- “Dynamic Consistency and Ambiguity: A Reappraisal”, 68<sup>th</sup> European Meeting of the Econometric Society (ESEM) (Toulouse, France), August 2014.
- “Dynamic Consistency and Ambiguity: A Reappraisal”, 16<sup>th</sup> conference on the Foundations of Utility and Risk (FUR 2014) (Rotterdam, Netherlands), July 2014.
- “Dynamic choice: A problem for Imprecise Probabilities or Imprecise Probabilists?”, Imprecise Probabilities in Statistics and Philosophy Workshop, (LMU, Munich, Germany), June 2014.

- “Risk versus Ambiguity and International Security Design”, XXII International Conference on Money, Banking and Finance (Rome, Italy), December 2013 (with T. Michalski).
- “On Representation Theorems”, 4<sup>th</sup> Conference of the European Philosophy of Science Association (Helsinki, Finland), August 2013 (with M. Cozic).
- “Risk versus Ambiguity and International Security Design”, European Economic Association Conference (Gothenburg, Sweden), August 2013 (with T. Michalski).
- “On Representation Theorems”, XI Conference of the International Network for Economic Method (Rotterdam, Netherlands), June 2013 (with M. Cozic).
- “Sampled Ambiguity in Experienced-Based Decision Making”, 4th Meeting of the Association Française d'Economie Expérimentale (Lyon), June 2013 (with M. Abdelloui, E. Kemel & H. Maafi).
- “Dynamic Consistency and Ambiguity: A Reappraisal”, Risk, Uncertainty and Decision (RUD) 2013 Conference (Paris), May 2013.
- “Confidence in Beliefs and Decision Making”, Models and Decisions Conference, Centre for Mathematical Philosophy, LMU Munich (Munich, Germany), April 2013.
- “Risk versus Ambiguity and International Security Design”, Royal Society Conference (London, UK), April 2013 (with T. Michalski).
- “Ambiguity versus risk in international capital flows and international transactions”, 14th European Trade Study Group Conference (Leuven, Belgium), September 2012 (with T. Michalski).
- “Les Théorèmes de Représentation”, Congrès de la Société de Philosophie Analytique 2012 (Paris), May 2012 (with M. Cozic).
- “Confidence in Beliefs and Decision Making”, New Science - New Risks Conference, Centre for the Philosophy of Science (Pittsburgh, USA), March 2012.
- “Awareness in Deliberation”, Third Meeting of the Rationality & Decision Network (London), June 2011.
- “Cut-free and normalised logic of proofs”, Analytic Proof Systems Workshop at The 17<sup>th</sup> International Conference for Logic for Programming, Artificial Intelligence and Reasoning (Yogyakarta, Indonesia), October 2010 (with F. Poggiolesi).
- “Confidence and Decision”, Risk, Uncertainty and Decision (RUD) 2010 Conference (Paris), July 2010.
- “Confidence and Ambiguity”, Foundations and Applications of Risk, Utility and Decision Theory (FUR) XIV (Newcastle), June 2010.
- “Awareness and equilibrium”, Synthese Conference 2010: Epistemology and Economics (New York), April 2010.
- “On Representation Theorems”, 4<sup>ème</sup> Congrès de la Société de Philosophie des Sciences (Paris), November 2009 (with M. Cozic).
- “Confidence and beliefs”, PROGIC09 : 4th Workshop on Combining Probability and Logic (Groningen, Netherlands), September 2009.
- “Confidence and Ambiguity”, Colloque annuel de l'Association Française des Sciences Economiques 2009 (Paris), September 2009.

- “Confidence in Preferences”, New Developments in Social Choice and Welfare Theories (Grand Colloque de l’ADRES 2009) (Caen, France), June 2009.
- “Belief and Preference Change”, Preference Change Workshop (LSE, London), May 2009.
- “The Algebra of Belief Change”, Prague International Colloquium Logic of Change, Change of Logic (Prague), September 2008.
- “On the Difference between Indicative and Subjunctive Conditionals”, ECAP-6 (European Congress of Analytical Philosophy) (Krakow), August 2008.
- “When is there state independence?”, Foundations and Applications of Risk, Utility and Decision Theory (FUR) XIII (Barcelona), July 2008.
- “Dynamic Awareness”, Logic and the Foundations of Game Theory (LOFT’08) (Amsterdam), July 2008.
- “An additively separable representation in the Savage framework”, Risk, Uncertainty and Decision (RUD) (Oxford), June 2008.
- “On the state dependence of utilities and related issues”, Decision & Uncertainty Workshop (Barcelona), May 2008.
- “The Logic of Awareness Change”, ILLCI International Workshop on Logic and Philosophy of Knowledge, Communication and Action (San Sebastien, Espagne), November 2007.
- “State-independent utilities without the axioms for state-independence”, 38<sup>th</sup> European Mathematical Psychology Group Conference (Luxembourg), September 2007.
- “Beliefs : identification and change”, Foundations of the Formal Sciences VI (Amsterdam, Pays-Bas), May 2007.
- “Le problème dynamique de l’induction”, 2<sup>ème</sup> Congrès de la Société de Philosophie des Sciences (Génève, Suisse), March 2007.
- “The (topo)logic of vagueness”, Prague International Colloquium on Vagueness and Uncertainty in Reasoning (Prague, Czech Republic), September 2006.
- “Towards a "sophisticated" model of belief dynamics”, Studia Logica Trends in Logic IV Conference (Torun, Poland), September 2006.
- “A proof semantics for classical logic”, Logic Colloquium 2006 (Nijmegen, Holland), July 2006.
- “The (topo)logic of vagueness”, Joint Meeting of the Aristotelian and Mind Societies (Southampton, UK), July 2006.
- “‘Realistic’ Belief Dynamics”, Logica 2006 (Hejnice, Czech Republic), June 2006.
- “The problem of baldness and the problem of vagueness”, ENFA-3 (Rencontre de la Société Portugaise de Philosophie Analytique, Lisbon, Portugal), June 2006.

## Invited presentations

- “Dynamic Consistency and Ambiguity: A Reappraisal”, 14<sup>th</sup> Society for the Advancement of Economic Theory (SAET) Conference on Current Trends in Economic Theory (Tokyo, Japan), August 2014.
- “Confidence in Beliefs and Decision Making”, LogCIC / LIRa seminar, Institute for Logic, Language and Information (ILLIC), University of Amsterdam (Amsterdam, Netherlands), March 2014.
- “Dynamic Consistency and Ambiguity: A Reappraisal”, Dynamic Interactions for Economic Theory Conference (Paris), December 2013.
- “Confidence as a source of deferral”, Decision making under uncertainty and beyond Workshop (Paris), December 2013.
- “Confidence in Beliefs and Decision Making”, Games and Decisions Workshop, Scuola Normale Superiore (Pisa, Italy), July 2013 (Keynote).
- “Ambiguity versus risk and International Security Design”, D-TEA (Paris), May 2013 (with T. Michalski).
- “Sampled Ambiguity in Experienced-Based Decision Making”, Decision making under ambiguity and beyond Workshop (Paris), December 2012 (with M. Abdelloui, E. Kemel & H. Maafi).
- “Dynamic Consistency under Uncertainty and Ambiguity: A Reappraisal”, Workshop on New Developments in Decision Theory Under Uncertainty, University of Cergy-Pontoise (Cergy), May 2012.
- “Awareness and Deliberation”, From Social Choice Theory to Logical Aggregation Theory Workshop, GREGHEC-LAMSADE-CERSES (Paris), April 2012.
- “Incomplete Preferences and Confidence”, Decision – Theory, Experiments and Applications (D-TEA) Workshop (Paris), June 2011.
- “Beyond Probabilities: Belief, Confidence and Decision-Making”, Philosophy and Cognitive Science Colloquium, Ruhr University of Bochum (Bochum, Germany), May 2011.
- “Deferral, Incomplete Preferences, and Confidence”, Workshop on Incomplete Preferences (Paris), March 2011.
- “Beyond Probabilities: Belief, Confidence and Decision-Making”, Philosophy and Economics Seminar, University of Bayreuth (Bayreuth, Germany), January 2011.
- “Beyond Probabilities: Belief, Confidence and Decision-Making”, LSE Choice Group Seminar (London), June 2010.
- “Confidence in Preferences”, Workshop on Choice Theory (Palaiseau, France), January 2010.
- “Dépendance de l'utilité par rapport aux états : questions et enjeux dans la tradition savagienne”, Séminaire Décision et Rationalité, GREGHEC et IHPST, October 2007.
- “Representation Theorems: rules and roles”, Decision, Games and Logic Workshop (London, UK), July 2007.

## **DISTINCTIONS ET BOURSES**

### **Distinctions**

- Médaille de bronze du CNRS, 2014.

### **Bourses**

- Allocation de recherche, Université Paris 1, 2003-2006.
- Bourse Entente Cordiale, 2002-2003.

## **ACTIVITES DE RECHERCHE**

### **Organisation of conferences and seminars / Organisation des colloques et des séminaires**

- “Decision making under uncertainty and beyond” workshop, Paris, December 2013 (with M. Abdellaoui).
- “Decision making under ambiguity and beyond” workshop, Paris, December 2012 (with M. Abdellaoui).
- D-TEA (Decision – Theory, Experiments and Applications) Paris, 2009-2014 (with M. Abdellaoui, I. Gilboa, and P. Mongin).
- “From Social Choice Theory to Logical Aggregation Theory” workshop, Paris, April 2012 (with P. Mongin, G. Pigozzi and S. Zuber).
- Paris Workshop on Incomplete Preferences, Paris, March 2011 (with E. Danan).
- Decision, Games and Logic Workshop ‘10, Paris, June 2010 (with M. Cozic).
- Prague International Colloquium “Logic of Change, Change of Logic”, September 2008, Prague (with O. Majer).
- “Décision et Rationalité” Seminar, GREGHEC et IHPST, 2007 – 2012 (with M. Cozic).

### **Member of scientific or organising committees of conférences / Appartenance aux comités scientifiques ou d’organisation des conférences**

- Scientific committee of RUD (Risk, Uncertainty and Decision) Conference, 2010-2014.
- Programme committee of LORI-III (Third International Workshop on Logic, Rationality and Interaction), Guangzhou, China, October, 2011.
- Scientific committee of ParisTech JET Conference on Inequality and Risk, Paris, June 2010.
- Organising committee of 3<sup>ème</sup> Congrès de la Société de la Philosophie des Sciences, Paris, November 2009.

## **Involvement in Research Projects / Participation à des Projets de Recherche**

- Labex EcoDec (Economics and Decision Sciences). ENSAE, Ecole Polytechnique & HEC Paris. 2012-2017.
- “Decision and Rationality” Research Network. NWO-funded Network; IHPST, LSE, Groningen, Tilburg, Leuven, Lund, and Munich. 2009-2012.
- HYPOTHESES (Hypothetical Reasoning) ANR-DFG project; IHPST & University of Tübingen. 2008-2011. (Coordinator of the IP3: Project on the Logic of Conditionals).
- CAUSAPROBA (Causality and Probability) ANR-DFG project; IHPST & University of Konstanz. 2008-2011.
- Decision Sciences GIS (Scientific Interest Group). ENSAE, Ecole Polytechnique & HEC Paris. 2007-2011.

## **Editorial duties, reviews / Responsabilités éditoriales, rapports**

- Member of the editorial board of *Oeconomia – Histoire / Epistémologie / Philosophie*: October 2010 – present.
- Book Review Editor for *Oeconomia – Histoire / Epistémologie / Philosophie*: April 2012 – present.
- Refereed for: *Econometrica*, *The Journal of Economic Theory*, *Review of Economic Studies*, *The Journal of Mathematical Economics*, *The Journal of Mathematical Psychology*, *The International Journal of Approximate Reasoning*, *Theory and Decision*, *Economics and Philosophy*, *Oeconomia*, *Games*, *Mind*, *Erkenntnis*, *Studia Logica*, *Journal of Philosophical Logic*, *Synthese*, *Theoria*, *The Journal of Logic and Computation*, *Journal of Applied Non-Classical Logic*.
- Research expertise requested by (not necessarily accepted): ANR, KU Leuven, Foundation for Science and Technology (Lisbon)

## **Administration**

- Member of the GREGHEC Steering Committee (conseil de laboratoire): 2013-.

## **ENSEIGNEMENT**

- Qualifié en Sections 5 (Sciences économiques, 2010), 17 (Philosophie, 2008) et 72 (Epistémologie, histoire des sciences et des techniques, 2008) du CNU.

## **Cours donnés / Courses taught**

En anglais / In English :

- The Economics of Decision Making (cours de théorie de la décision et des jeux). *HEC Paris*; L3; 2014. (Course coordinator / Responsable du cours.)



- Strategic Decision Making (cours de théorie de la décision et des jeux). *HEC Paris*; L3; 2010-2013. (Course coordinator / Responsable du cours.)
- Methods of Philosophical Analysis (cours d'introduction aux concepts et méthodes de la philosophie de la connaissance et de la croyance). *HEC Paris*; L3; 2012-. (Course coordinator / Responsable du cours.)
- Behavioral Economics (cours d'économie comportementale). *HEC Paris* ; M2 ; 2011. (Course coordinator / Responsable du cours.)
- Making Better Decisions (cours de théorie appliquée de la décision). *HEC Paris* ; MBA ; 2010.
- Rational Choice (cours d'introduction à la micro-économie). *HEC Paris* ; L3 ; 2008-2009.

En français / In French :

- Méthodes Logiques et Argumentatives (cours d'introduction à la logique formelle et la rhétorique) *HEC Paris* ; L3 & Doctorate; 2007-. (Course coordinator / Responsable du cours.)
- Section « Décision dans le Risque » de l'Introduction aux Sciences de la Décision. *Master des Sciences Cognitives (ENS-EHESS-Paris 6)* ; M1 ; 2013-.
- Economie de l'Entreprise (cours d'introduction à la micro-économie). *HEC Paris* ; L3 ; 2010-2011.
- Méthodes d'Analyse Philosophique (cours d'introduction aux concepts et méthodes de la philosophie de la connaissance et de la croyance). *HEC Paris* ; L3; 2007-2011. (Course coordinator / Responsable du cours.)

## **Direction d'étudiants / Student supervision**

### **Masters students (Mémoire de M2)**

- Maclej Zak (*Master des Sciences Cognitives (ENS-EHESS-Paris 6)* ; 2012-13) [co-direction]
- Sonia Marin (*Master des Sciences Cognitives (ENS-EHESS-Paris 6)* ; 2013-14) [co-direction]
- Antoine Kerbénères (*Master des Sciences Cognitives (ENS-EHESS-Paris 6)* ; 2013-14)