

Sophie Roux

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École normale supérieure
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Education and diplomas

- 2010 **Habilitation à diriger des recherches** [accreditation to supervise research]
ENS de Lyon
Recherches sur la philosophie naturelle à l'âge classique
- 1996 **Ph.D. in History of Science**
EHESS, centre Alexandre-Koyré
La philosophie mécanique (1630–1690)
- 1990 **DEA in History of Science** [pre-doctoral degree]
EHESS, centre Alexandre-Koyré.
Les fonctions de l'éther dans les systèmes physiques du XVII^e siècle.
- 1989 **DEA in Philosophy** [pre-doctoral degree]
université Paris I
La modération de Montesquieu
- 1987 **Agrégation in Philosophy** [competitive examination for becoming a teacher]
- 1984 admission at the **École normale supérieure**, section L [humanities].

Academic appointments

- 2012–present **Professor of History and Philosophy of Science**
École normale supérieure
- 2002–2012 **Assistant professor of Early Modern Philosophy**
université Pierre-Mendès-France
- 1998–2002 **Professeur agrégé**
EHESS, centre Alexandre-Koyré
- 1997–1998 **Research fellow** (BAT IIa)
Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, department II
- 1996–1997 **Post-doctoral fellowship**
Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, department II

Awards, fellowships and scholarships

- 2018 Visiting Scholar at the MPIWG, Berlin, department II (4 ½ months residency)
- 2016 Visiting Scholar at the Institute for Advanced Studies, Bologna (1 ½ month residency)
- 2015 Invited Professor at the Eastern China National University, Shanghai (24 hours of teaching)
- 2014 Visiting Scholar at the Centre for the Foundations of Science, University of Sydney (1 ½ month residency)
- 2010 Research scholar at the MPIWG, Berlin, department I (2 months residency)
- 2009 Research scholar at the MPIWG, Berlin, department II (2 ½ months residency)
- 2007–2012 Junior member of the *Institut universitaire de France*
- 1993–1995 Fondation Thiers scholarship
- 1992–1993 *Chargée de cours* [reader] at the université de Clermont-Ferrand
- 1989–1992 *Assistante Monitrice Normalienne* [Teaching and research assistant] at the université Paris I
- 1989 Teaching assistant in French language at Stanford University

Invited presentations (selected 2012–)

- May 2019: “Mariotte’s Radical Experimentalism,” *Experience and Reasoning in Scientific Methodology: between Antiquity and the Early Modern Period*, Prague (M. Havrda, The Czech Academy of Sciences).
- January 2019: “Material and Immaterial Souls in Gassendi,” *Mind and Matter. Dividing Lines in the Early Modern Period* Paris (J.-P. Anfray, ENS, and M. Rozemond, Toronto).
- July 2018: “What to Do with the Mechanical Philosophy?,” *History of Philosophy of the Scientific Revolution*, Ames (D. Miller, Iowa State University).
- September 2017: “Descartes philosophe du système. La critique de la physique cartésienne en France à la fin du XVII^e siècle,” *Teoria e critica dei sistemi nel Settecento*, Bologna (M. Spallanzani, Bologna).
- June 2016 “Laws of Nature: Words, Concepts, Things,” *Early Modern Laws of Nature*, Oxford (I. Silva, Oxford, and A. Sangiacomo, Groningen).
- March 2015: “The Mathematical Theses Defended at *collège de Clermont* (1637-1682): How to Guard a Fortress in Times of War,” in collab. with D. Collacciani, *Teaching Philosophy in the Seventeenth Century: Image and Text*, Princeton (J. Berger, D. Garber and A. Grafton, Princeton).

- August 2014: “The Two Comets of 1664-1665. A Dispersive Prism for French Natural Philosophy Principles,” *Principles in Early Modern Thought*, Sydney (P. Anstey and S. Gaukroger, university of Sydney).
- January 2014: “What Kind of Mechanism for Cartesian Physics?” *Mechanicism, Mathematics and Experiment: Early modern Intersections*, Bucarest (V. Alexandrescu and D. Jalobeanu, Bucarest, Center for Early Modern Studies).
- June 2013: “On the Very Idea of Thought Experiment,” Nijmegen (C.R. Palmerino, Radboud Universiteit).
- March 2012: “A Cartesian Across The Channel: Antoine Le Grand Encounters with the Bishop Samuel Parker and the Aristotelian John Sergeant,” *Across the Channel*, Oxford (M. Pécharman, CNRS, MFO, and P. Beeley, Linnacre College).

Teaching and advising (selected, 2012–)

Master

Histoire de la Révolution scientifique et théorie des révolutions scientifiques

Les Jeudis de l’histoire et de la philosophie des sciences

Histoire et théorie des controverses à l’âge classique

Locke, *Essai sur l’entendement humain*

Kuhn, *La structure des révolutions scientifiques*

Galilée, *Dialogue sur deux grands systèmes du monde*

Granger, *Pensée formelle et sciences de l’homme*

Agrégation

Oral, texte français, Duhem, *La théorie physique*

Écrit, Descartes

Oral, Épistémologie et logique

Oral, texte italien, Galilée, *Il Saggiatore*

Research seminars

Machines, mécanismes, explications machiniques, explications mécaniques

Qui a peur du relativisme ?

L’incroyable efficacité des mathématiques

Expériences de pensée

PhD advisor

- T. Legendre, *Vivre est-il un droit ? Le principe d'inertie et la constitution de l'anthropologie moderne*, funded by ED 540, codirected with A. Sangiacomo (Groningen).
- A. Pottin, *La techno-politique des objets du nucléaire* (2018-), specific funding for “normaliens,” codirection with S. Boudia (université de Paris 5).
- V. Leroux, *Le jeu dans la pensée de Leibniz* (2017-), funded by ED 540, codirected with D. Rabouin (CNRS).
- L. Fabry, *Mathématisation et formalisation dans les sciences humaines et sociales, 1950-1975 : Un débat philosophique autour de Lévi-Strauss* (2016-), specific funding for “normaliens,” codirected with P. Sabot (université de Lille 1).
- J. Sanchez, *Astronomie et astrologie au XVII^e siècle : entre rejet et assimilation* (2016-), specific funding for “normaliens,” codirected with K. Vermeir (CNRS).
- P. Jeandillou, *La mathématisation de la physique entre Kepler et Descartes* (2015-), specific funding for “normaliens,” codirected with E. Mehl (université de Lille 1).
- M. Storni, *Les controverses de Maupertuis* (2014-), funded by ED 540, codirected with M. Spallanzani (università di Bologna), defended in June 2018.
- H.M. Delgado Fernandez, *Les controverses de Torricelli avec les mathématiciens français* (2012-), funded by ARC 5 of Région Rhône-Alpes, codirected with C. Goldstein (CNRS), defended in June 2017.
- T. Lerosier, *Le discours de l'innovation dans la technopole grenobloise* (2012-2016), funded by Structure Fédérative de Recherche Innovacs, codirected with D. Pestre (EHESS), defended in June 2016.
- S. Adli, *Les postulats de l'éducation* (2010-2015), prepared without funding, defended in November 2015.

Event organization and funding (selected 2012–)

Conferences and workshops

- Bachelardismes et anti-bachelardismes*, organized with L. Fabry and F. Worms (ENS), Institut d'études avancées, Paris, April 2019.
- Learned Philosophy*, in honor of R. Ariew, organized with D. Jesseph (University of South Florida), D. Garber (Princeton University), G. Manning (Caltech University), O. Nachtomy (Bar Ilan University), J. Smith (université Paris VII), ENS, Paris, January 2016.
- Observations and Experiments as Forms of Writing: Describing, Registering, Recording and New Scientific Genres in Early Modern Europe*, organized with C. Crignon (université Paris IV), ENS, Paris, May 2015.
- Les processus de l'objectivation*, in honor of L. Daston, ENS, Paris, November 2015.

Controversies and Experimentations in the Emergence of Modern Philosophy and Science, ENS, Paris, Avril 2014.

Louis Couturat, organized with M. Fichant (université Paris IV), ENS, Paris, May 2014.

Third Congress of the ESEMP, *Debates, Polemics and Controversies in Early Modern Philosophy*, Grenoble, January 2013.

Physique et métaphysique: quels enjeux pour la constitution des cartésianismes et des anticartésianismes ?, organized with D. Kolesnik (ENS de Lyon), ENS de Lyon (March 2013) and ENS (October 2013).

Seminars and reading groups

With J.-P. Anfray (ENS), F. de Buzon (université de Strasbourg), D. Kambouchner (université Paris 1) and M. Pécharman (CNRS), *Séminaire Descartes* (2014-).

With G. Bianco (2014), then with J.-P. Anfray, D. Arbib, P. Clavier and I. Saurin (2015), *Qu'est-ce que faire de l'histoire de la philosophie? Catégories, méthodes, pratiques*.

With J.-P. Anfray, D. Arbib et al. (2017-), séminaire *Mathesis*.

Grants

Anthropos. Vers une physique de l'âme: la constitution d'une science de l'homme (1638-1825), ANR, coordinated by D. Kolesnik (2012–2015)

Controverses scientifiques et philosophiques dans la République des Lettres, Labex Transfers, coordinated by S. Roux (2012–2016).

Professional service (selected 2012–)

Administrative Duties at the École normale supérieure (2012–)

Director at the École normale supérieure of Master LOPHISS-SC2, in cooperation with the université Paris VII and the École Polytechnique (2012–2014); then Master LOPHISS-SPH, in cooperation with the université Paris VII (2014–2018).

Member of the jury of the International Selection of the École normale supérieure (2014–2016).

Leader of the team *Mathesis* of CIRPHLES, USR 3608 (2012–2014), then of *La République des savoirs*, USR 3608 (2014–). See <http://mathesis.hypotheses.org/>

Director of the ED 540 [Doctoral program for Humanities, Arts and Social Sciences at ENS] (2016–). See <https://www.ed540.ens.fr/>

Director of *La République des savoirs*, USR 3608, CNRS-Collège de France-ENS (2019–). See <http://republique-des-savoirs.fr/>

Member of the board of the EUR *Translitterae*. See <https://www.translitterae.psl.eu/>

National Expertise

Member of the jury for the entrance examination to the ENS de Lyon (2004) and of the jury for the *agrégation* in philosophy (2005–2007).

Member of the Conseil national des universités, section 17 (philosophy), collège B (2008–2011) and collège A (2015–2016).

Member of recruitment committees for assistant professors at the universities of Grenoble II (2005, 2008, 2010), of Lyon III (2008), of Paris I (2012), of Strasbourg (2012), of Chambéry (2012), and at the École normale supérieure (2018).

Member of recruitment committees for professors at the universities of Lyon II (2013, 2017), of Lille III (2014), of Nanterre-Paris-Ouest (2016, 2018), of Grenoble-Alpes (2016), of Rennes (2017), of Bordeaux (2017), of Paris 1 (2019), and at the École normale supérieure (2013, 2017, 2018).

Editing and peer review

Scientific and editorial boards: *Early Science and Medicine* (1999–), *Revue d'histoire des mathématiques* (2008–2016), *Bibliothèque des sciences sociales* (2009–2018), *Centre pour l'édition électronique ouverte* (2009–2018), *Cahiers philosophiques de Strasbourg* (2013–), *European Journal for Philosophy of Science* (2017–).

Referee (journals): *Early Science and Medicine*, *Science in Context*, *Compte rendus de l'Académie des sciences (Physique)*, *Historia scientiarum*, *Revue philosophique de la France et de l'étranger*, *XVII^e siècle*, *Lato sensu*, *Dialectica*, *Revue d'histoire des sciences*, *Philosophia scientiae*, *Society and Politics*, *The Philosophical Quarterly*, *Cahiers philosophiques de Strasbourg*, *Journal of the History of Philosophy*.

Referee (presses): Leo Olschki, Presses universitaires de Strasbourg, Routledge.

Referee (funding): Research in Paris, Research Foundation-Flanders, Wellcome Trust, Labex Hastec, Israel Science Foundation.

Referee (recruitment and promotion): EHESS, Carleton university, Université Libre de Bruxelles, université de Montréal, Tshingha university.

Responsibilities in learned societies

Vice-president (2007–2009, 2013–2016) and President (2009–2013) of the European Society for Early Modern Philosophy (ESEMP).

Member of the organization committee for the section “Kant and Before” of the Congress of the International Society for the History Of Philosophy Of Science (HOPOS) (Minneapolis, 2016), member of the Steering committee and of the Publications committee of HOPOS (2017–2021).

Selected public engagement

Professional blogging: *Évaluation de la recherche en SHS*, <http://evaluation.hypotheses.org/>, *Academia. Informations sur l'emploi des enseignant-e-s chercheur-se-s en sciences humaines et sociales*, <http://academia.hypotheses.org/>.

Radio: interviews in *La conversation scientifique* (France-Culture), *Les nouveaux chemins de la connaissance* (France-Culture), *La méthode scientifique* (France-Culture).

Festival: *À nous de voir. Festival Sciences et Cinéma* (member of the scientific committee, 2006-2008, and member of the jury 2014), *Night of Philosophy* (New York 2014, Stockholm 2017), *Rencontres philosophiques de Langres* (Member of the scientific committee, 2014–2015).

President of the Prix de thèse PSL SHS, jury Humanités (2018–).

Other presentations at colleges and public events.