

## 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. F. de Buzon, M. Fichant, D. Garber, C. Lüthy, P.-F. Moreau (director),  
J. Peiffer.  
*Recherches sur la philosophie naturelle à l'âge classique*
- 1996        **Ph.D. in History of Science**  
EHESS, centre Alexandre-Koyré. Examined by F. Balibar, E. Coumet (director), F. De  
Gandt, M. Fichant, A. Gabbey.  
*La philosophie mécanique (1630–1690)*
- 1990        **DEA in History of Science** [pre-doctoral degree]  
EHESS, centre Alexandre-Koyré. E. Coumet (director).  
*Les fonctions de l'éther dans les systèmes physiques du XVII<sup>e</sup> siècle*
- 1989        **DEA in Philosophy** [pre-doctoral degree]  
université Paris I. M. Serres (director).  
*La modération de Montesquieu*
- 1987        **Agrégation in Philosophy** [competitive examination for becoming a teacher]
- 1984        admission at the **École normale supérieure**, section L [humanities]
- 1975–1984    Studies at the Lycée Paul Valéry then the Lycée Louis-Le-Grand, Paris; prizes in French  
and philosophy at the *Concours Général* [national honors examination]/

### Academic appointments

- 2012–present    **Professor of History and Philosophy of Science**  
École normale supérieure, Paris
- 2002–2012    **Assistant professor of Early Modern Philosophy**  
université Pierre-Mendès-France, Grenoble
- 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**

2021–2022    Fellow at the Wissenschaftskolleg zu Berlin and Research Scholar at the MPIWG, Berlin, department II

2021            Invited Professor at Fudan University, Shanghai (6 hours of teaching, online because of Covid-19)

2021            Visiting Fellow at All Souls, Oxford (2 ½ months residency, abridged because of Covid-19)

2020            Fowler Hamilton Fellow at Christ Church, Oxford (6 months residency, abridged because of Covid-19)

2018            Research 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

## **Publications**

### **Book in preparation**

Galilée, *Les mécaniques de Galilée*, critical edition, trad., notes and comments, in collaboration with E. Festa (under contract Paris, Les Belles-Lettres, coll. « Sciences et Humanisme »).

### **Books**

*Physics and Metaphysics in Descartes and his Receptions*, ed. with D. Mahut, London, New York: Routledge, 2018.

- Louis Couturat (1868-1914). Mathématiques, langage, philosophie*, ed. with M. Fichant, Paris: Classiques Garnier, 2017.
- Duhem, P., *La Théorie physique*, ed., intr. “Lire Duhem aujourd’hui” and annotation, Lyon, ENS de Lyon: Bibliothèque idéale des sciences sociales, 2016.
- Coumet, E., *Œuvres complètes. Vol. 1. Articles*, ed. with T. Martin; intr. “Ernest Coumet au Pays des merveilles. Rencontres épistémologiques d’un historien des sciences,” p. 13–67, Besançon: Presses universitaires de Besançon, 2016.
- The Mechanization of Natural Philosophy*, ed. with D. Garber, New York, Dordrecht, Boston, London: Kluwer Academic Publishers, 2013.
- L’automate. Machine, métaphore, modèle, merveille*, ed. with A. Gaillard, J.-Y. Goffi and B. Roukhomovsky, Bordeaux: Presses universitaires de Bordeaux, 2012.
- La mathématisation comme problème*, ed. with H. Chabot, Paris: Éditions des archives contemporaines, 2011.
- L’Essai de logique de Mariotte. Archéologie des idées d’un savant ordinaire*, Paris: Classiques Garnier, 2011.
- Thought Experiments in Historical and Methodological Contexts*, ed. with K. Ierodiakonou, Leiden, Boston, Tokyo: Brill, 2011.
- Mechanics and Natural Philosophy before the Scientific Revolution*, Dordrecht, ed. with W.R. Laird, Boston, London: Kluwer Academic Publishers, 2008.
- Mechanics and Cosmology in the Medieval and Early Modern Period*, ed. with M. Bucciantini and M. Camerota, Firenze: Olschki, 2007.
- Retours sur l’affaire Sokal* (ed.), Paris: L’Harmattan, 2007.

### **Guest-edited journals**

- Forms of Mathematization, 14<sup>th</sup>–17<sup>th</sup> century*, ed. with C.R. Palmerino. *Early Science and Medicine*, 15 (4-5), 2010.
- Lambertiana*, ed. with P.-E. Bour. *Recherches sur la philosophie et le langage*, 28, 2010.
- Du Nouveau dans les sciences*, ed. with S. Carvallo. *Recherches sur la philosophie et le langage*, 24, 2006.
- Histoire des Jeux, Jeux de l’histoire*, ed. with I. Passeron. *Revue de synthèse*, 2-3-4, 2001.

### **Articles**

- “Une histoire intellectuelle de la tripartition concept, notion, idée selon les dictionnaires philosophiques”, *Revue de synthèse*, to be published 2022.
- What to Do with the Mechanical Philosophy?,” in *Oxford Handbook to the Scientific Revolution*, eds. D. Jalobeanu and D. Miller, Cambridge, Cambridge UP, p. 75–95.

- “The Mathematical Theses Defended at *collège de Clermont* (1637-1682): How to Guard a Fortress in Times of War,” in collab. with D. Collacciani, in *Teaching Philosophy in the 17th Century*, eds. S. Berger and D. Garber, to be published 2021.
- “Une enquête sur Jacques du Roure (suite),” *Bulletin cartésien*, 50, 2021, p. 20–30.
- “Premiers éléments d’une enquête sur Jacques du Roure,” *Bulletin cartésien*, 49, 2020, p. 168–180.
- “The Condemnations of Cartesian Natural Philosophy under Louis XIV (1661–1691),” in *Oxford Handbook to Descartes and Cartesianism*, eds. D. Antoine-Mahut, S. Nadler and T. Schmaltz, Oxford, Oxford University Press, 2019, p. 755–779.
- “A Deflationist Solution to the Problem of Forces,” in *Physics and Metaphysics in Descartes and its Receptions*, eds. D. Kolesnik and S. Roux, London, New York: Routledge, 2018, p. 141–159.
- “From the Mechanical Philosophy to Early Modern Mechanisms,” in *Routledge Handbook of mechanisms*, eds. S. Glennan and P. Illari, London, New York: Routledge, 2018, p. 26–45.
- “La Lettre à Dinet,” in *Les Méditations*, ed. D. Arbib, Paris: Vrin, 2018, p. 394–414.
- “A Dialectical Account of Thought Experiments,” in collab. with J.-Y. Goffi, in *Routledge Companion to Thought Experiments*, eds. J.R. Brown, Y. Fehige and M. Stuart, London, New York: Routledge, 2018, p. 439–453.
- “The Two Comets of 1664–1665: A Dispersive Prism For French Natural Philosophy Principles,” in *The Idea of Principles in Early Modern Thought*, ed. P. Anstey, London, New York: Routledge, 2017, p. 98–146.
- “Couturat et Lalande: quelles réformes du langage?,” in *Louis Couturat (1868–1914)*, eds. M. Fichant and S. Roux, Paris: Classiques Garnier, 2017, p. 231–268.
- “Pierre Bourdin contre Descartes. La querelle sur l’optique à la lumière des thèses des mathématiques du Collège de Clermont (1638–1653),” in collab. with D. Collacciani, in *Chemins du cartésianisme*, eds. R. Carbone and A. Del Prete, Paris: Classiques Garnier, 2017, p. 51–84.
- “Pierre Bourdin, anti-cartésien ou jésuite ordinaire? Une étude systématique des thèses des mathématiques du Collège de Clermont (1638–1653),” in collab. with D. Collacciani, *Historia Philosophica*, 2017, p. 89–113.
- “Everything You Always Wanted to Know About the *Summa quadripartita* that Descartes Never Wrote,” *Journal for Early Modern Studies*, 5, 2016, p. 171–186. Reprinted in *Perspectives on Science*, 26-5, 2018, p. 1–16.
- “De Malebranche à Locke et retour. Les idées avec ou sans la vision en Dieu,” in *Les malebranchismes des Lumières*, ed. D. Kolesnik, Paris: Honoré Champion, 2014, p. 67–113.
- “Was There a Cartesian Experimentalism in Seventeenth Century France?,” in *Cartesian Empiricism*, eds. M. Dobre and T. Nyden, New York, Dordrecht, Boston, London: Kluwer Academic Publishers, 2014, p. 47–88.

- “A French Partition of the Empire of Natural Philosophy (1670–1690),” in *The Mechanization of Natural Philosophy*, eds. D. Garber and S. Roux, New York, Dordrecht, Boston, London: Kluwer Academic Publishers, 2013, p. 55–98.
- “Pour une conception polémique du cartésianisme. Ignace-Gaston Pardies et Antoine Dilly dans la querelle de l’âme des bêtes,” in *Qu’est-ce qu’être cartésien?*, ed. D. Kolesnik, Lyon: ENS Éditions, 2013, p. 315–337.
- “Quelles machines pour quels animaux? Jacques Rohault, Claude Perrault, Giovanni Alfonso Borelli,” in *L’automate. Machine, métaphore, modèle, merveille*, eds. A. Gaillard, J.-Y. Goffi, B. Roukhomovsky and S. Roux, Bordeaux: Presses universitaires de Bordeaux, 2012, p. 69–113.
- “Logique et méthode au XVII<sup>e</sup> siècle,” *Cahiers philosophiques de l’université de Strasbourg*, 2012, p. 21–46.
- “Pour une étude des formes de la mathématisation,” in *La mathématisation comme problème*, eds. H. Chabot and S. Roux, Paris: Éditions des archives contemporaines, 2011, p. 3–38.
- “The Emergence of the Notion of Thought Experiments,” in *Thought Experiments in Historical and Methodological Contexts*, eds. K. Ierodiakonou and S. Roux, Leiden, Boston, Tokyo: Brill, 2011, p. 1–36.
- “On the Very Idea of a Thought Experiment,” in collab. with J.-Y. Goffi, in *Thought Experiments in Historical and Methodological Contexts*, eds. K. Ierodiakonou and S. Roux, Leiden, Boston, Tokyo: Brill, 2011, p. 165–191.
- “Meyerson et les mathématiques,” *Corpus*, 58, 2010, p. 28–45.
- “Forms of Mathematization (14<sup>th</sup>–17<sup>th</sup> Centuries),” *Early Science and Medicine*, 15, 2010, p. 319–337.
- “Exact Experiences and Mathematical Deductions: Physics according to Mariotte,” *Departure for Modern Europ. Philosophy between 1400 and 1700*, Hamburg: Felix Meiner Verlag, 2010, p. 715–733.
- “Histoire de la science classique et historicité des sciences chez Meyerson,” in *L’histoire et la philosophie des sciences à la lumière de l’œuvre d’Émile Meyerson (1859–1933)*, eds. E. Telkes-Klein and E. Yakira, Paris: Honoré Champion, 2010, p. 91–114.
- “L’Essai de logique de Mariotte: une naturalisation de la méthode?,” *Recherches sur la philosophie et le langage*, 27, 2010, p. 163–188.
- “Quelles mathématiques pour la force de percussion?” in *Mathématiques et connaissance du monde réel avant Galilée*, ed. S. Rommevaux, Paris: Omniscience, 2010, p. 243–285.
- “Controversies on Legality (1680–1710),” in *Natural Law and Laws of Nature in Early Modern Europe*, eds. L. Daston and M. Stolleis, Aldershot: Ashgate Publishing Ltd., 2009, p. 199–214.
- “The Enigma of the Inclined Plane from Hero to Galileo,” in collab. with E. Festa, in *Mechanics and Natural Philosophy before the Scientific Revolution*, eds. W.R. Laird and S. Roux, Dordrecht, Boston, London: Kluwer Academic Publishers, 2008, p. 195–221.

- “Les *Recherches métaphysiques* de Gassendi: vers une histoire naturelle de l’esprit,” in *Gassendi et la modernité*, ed. S. Taussig, Turnhout: Brepols, 2008, p. 105–140.
- “D’une Affaire aux autres,” in collab. with J. Debaz, in *Retours sur l’affaire Sokal*, ed. S. Roux, Paris: L’Harmattan, 2007, p. 1–48.
- “Littéraires et scientifiques: trivialisier n’est pas sans danger,” in *Retours sur l’affaire Sokal*, ed. S. Roux, Paris: L’Harmattan, 2007, p. 89–132.
- “La philosophie naturelle à l’époque de Le Nôtre. Remarques sur la philosophie mécanique et sur le cartésianisme,” in *Fragments d’un paysage culturel, André Le Nôtre, Institutions, arts, sciences et techniques*, ed. G. Fahrat, Sceaux: Musée de l’Ile de France, 2006, p. 98–111.
- “La moindre petite force suffit à mouvoir un corps sur l’horizontal. L’émergence d’un principe mécanique et son devenir cosmologique,” in collab. with E. Festa, *Galilaeana*, 3, 2006, p. 123–147.
- “Découvrir le principe d’inertie,” *Recherches sur la philosophie et le langage*, 24, 2006, p. 453–515.
- “La philosophie naturelle d’Honoré Fabri (1607–1688),” in *Les Jésuites à Lyon*, eds. E. Fouilloux and B. Hours, Lyon: Presses de l’ENS-LSH, 2005, p. 75–94.
- “Los Retos de la filosofía mecánica en el siglo XVII: el caso de Descartes,” in *Los Orígenes de la ciencia moderna Actas - Año XI-XII, Fundación Canaria de Historia de la Ciencia*, Tenerife, 2004, p. 427–441.
- “Cartesian Mechanics,” in *The Reception of the Galilean Science of Motion in Europe*, eds. C.R. Palmerino and H. Thijssen, Dordrecht, Boston, London: Kluwer Academic Publishers, 2004, p. 25–66.
- “Le *para phusin* et l’imitation de la nature dans quelques commentaires du prologue des *Questions mécaniques*,” in collab. with E. Festa, in *Largo Campo di Filosofare. Eurosymposium Galileo 2001*, eds. J. Montesinos and C. Solis, Fundación Canaria Orotava de Historia de la Ciencia, 2001, p. 237–253.
- “Les lois de la nature au XVII<sup>e</sup> siècle: le problème terminologique,” *Revue de synthèse*, 2-3-4, 2001, p. 531–576.
- “Descartes atomiste?” in *Atomismo e continuo nel XVII secolo*, eds. R. Gatto and E. Festa, Naples: Vivarium, 2000, p. 211–274
- “Le scepticisme et les hypothèses de la physique,” *Revue de synthèse*, 2-3, 1998, p. 211–255.
- “La nature de la lumière selon Descartes,” in *Le Siècle de la Lumière*, eds. C. Biet and V. Jullien, Fontenay Saint-Cloud: Presses de l’ENS de Fontenay Saint-Cloud, 1997, p. 49–66.
- “Le premier livre des *Équilibres plans*: réflexions sur la mécanique archimédienne,” in *Mathématiques dans l’Antiquité*, ed. J.-Y. Guillaumin, Saint-Étienne: Presses de l’université de Saint-Étienne, 1992, p. 95–160.

## Other publications

- “Le temps de l’anamnèse,” *Michel Serres. Un hommage à 50 voix*, Paris, Le Pommier, 2020, p. 175–178.
- « Connaître, s’estimer et rire », *Surprise. 107 Variations on the Unexpected*, dir. M. Feld, A. teHeesen, Ch. Von Oertzen, F. Vidal, Berlin, MPIWG, 2019, p. 344–347.
- “Preface,” in B. Klein, *Les chaires et l’esprit. Organisation et transmission des savoirs au sein d’une université germanique au XVII<sup>e</sup> siècle*, Lyon: Presses universitaires de Lyon, 2017, p. 5–9.
- “Introduction,” *Noctua, Philosophy and Mathematics at the Turn of the 18th Century: New Perspectives*, 4, 2017, p. i–ix.
- “Intégrité, éthos scientifique, fraudes et négligences », *L’Archicube*, 19, 2015, p. 52–70.
- “À propos du colloque *The Machine as Model and as Metaphor*,” *Revue de synthèse*, 30, 2009, p. 165–175.
- “De la nouveauté à l’âge classique,” in *Concepts, cultures et progrès scientifiques et techniques, enseignement et perspectives*, ed. G. Pajonk, Éditions du Comité des Travaux historiques et scientifiques, 2009, p. 79–90.
- “Introduction,” in collab. with S. Carvallo, *Recherches sur la philosophie et le langage*, 24, 2006, p. 7–36.
- “Le meilleur des mondes?,” *Les Cahiers de Science et Vie. La Nature et le principe de moindre action*, 68, 2002, p. 30–34.
- “Mécaniques cartésiennes,” *Les Cahiers de Science et Vie. Numéro spécial René Descartes*, 66, 2001, p. 46–53.
- “Présentation,” in collab. with I. Passeron, *Revue de synthèse*, 2-3-4, 2001, p. 271–286.
- Entry “force,” in *Dictionnaire d’histoire et de philosophie des sciences*, eds. F. Balibar, B. Bensaude-Vincent, D. Lecourt, M. Morange and P. Tassy, Paris: Presses Universitaires de France, 1999, p. 419–421.
- “Les explications de la philosophie mécanique,” *La Lettre de la Maison Française d’Oxford*, 4, 1996, p. 125–136.

**Book reviews for:** *Annales*, *Revue d’histoire des sciences*, *Physis*, *Revue de synthèse*, *Early Science and Medicine*, *Metascience*, *Bulletin cartésien*.

## Invited presentations (selected 2012–)

- May 2021: “The Two Comets of 1664–1665. A Dispersive Prism for French Natural Philosophical Principles,” Visiting Fellows Colloquium (S. Talmon, Oxford).
- May 2021: “The Life and Works of Jacques Du Roure: Chasing for an Unknown Cartesian,” Early Modern Intellectual History Seminar (D. Levitin and N. Malcolm, Oxford).

- June 2020: “The issue of the historicity of sciences among Bachelard’s heirs: Canguilhem, Foucault, Granger,” symposium *The Paradox of Historical Epistemology*, congress HOPOS, Hong Kong, cancelled because of Covid-19.
- March 2020: “Connaissance des choses physiques et connaissance des choses mathématiques dans la controverse Descartes-Gassendi,” *Gassendi & Descartes : la controverse de la Disquisitio metaphysica*, Paris (D. Bellis, université de Montpellier, and S. Roux).
- January 2020: “Jacques du Roure: Schoolboarder, Uncle of a Rebel, Cartesian,” *Descartes in the Classroom, Nimègue* (D. Cellamare, Nimègue, and M. Mantovani, Louvain).
- November 2019: “Eclecticism and Scepticism in Early Modern France,” *Eclecticism and Eclectic Philosophy in the 17th and 18th centuries*, Bucharest (T. Prunea, Bucharest, et S. Roux).
- October 2019: “La glande pinéale en Angleterre: More, Willis, Charleton, Glanvill,” *Le cerveau cartésien : problèmes et controverses*, Paris (D. Kambouchner, D. Lacroux et R. She, Paris 1).
- 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<sup>e</sup> 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*, Bucharest (V. Alexandrescu and D. Jalobeanu, Bucharest, 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*

*Gassendi et Descartes : le dialogue de la chair et de l’esprit. Sur la Disquisitio metaphysica*

### **PhD advisor**

Y. Cao, *La mondialisation de la nature. Le moment métaphysique dans la doctrine du monde de Descartes* (2021–), funded by Fudan University.

H.E. Velilla Jiménez, *Science and Colonialism: The mathematization of Natural Philosophy in the policies regarding the Spanish colonization of the New World* (2021–), funded by the University of Salamanca, codirected with D. Jiménez-Castaño (University of Salamanca).

S. Le Gendre, *Vivre est-il un droit ? Le principe d’inertie et la constitution de l’anthropologie moderne* (2019–), funded by ED 540.

- S. Ducourant, *Le Bien-être animal, des rationalités en débat : un concept entre science et politique*, specific funding for “normaliens,” codirected with F. Burgat (INRA-SAE2).
- A. Pottin, *La techno-politique des objets du nucléaire* (2018-), specific funding for “normaliens,” codirected 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* (2016-2022), specific funding for “normaliens,” codirected with P. Sabot (université de Lille 1), defended in December 2021.
- J. Sanchez, *Astronomie et astrologie au XVII<sup>e</sup> siècle : entre rejet et assimilation* (2016-2022), specific funding for “normaliens,” codirected with K. Vermeir (CNRS).
- P. Jeandillou, *La mathématisation de la physique entre Kepler et Descartes* (2015-2021), specific funding for “normaliens,” codirected with E. Mehl (université de Lille 1, then Strasbourg) to be defended in December 2021.
- M. Storni, *Les controverses de Maupertuis* (2014-2018), 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* (2012-2017), 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**

- Gassendi et Descartes : le dialogue de la chair et de l'esprit*, organized with D. Bellis (université de Montpellier), Paris, March 2020.
- Eclecticism and Eclectic Philosophy in the 17th and 18th centuries*, organized with T. Prunea (University of Bucharest), Bucharest, November 2019.
- 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 Illan 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 honour 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 and 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 (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] (2016–2020). 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* (2018-2020). 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).

Referee for the recruitment of assistant professors at the EHESS (2012).

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), of Nancy (2020) and at the École normale supérieure (2013, 2017, 2018, 2020).

Member of the scientific committee of *Rencontres philosophiques de Langres* (2014–2015).

President of the Prix de thèse PSL SHS, jury Humanités (2018–2019).

### **International Expertise**

Referee (funding): Research in Paris, Research Foundation-Flanders, Wellcome Trust, Labex Hastec, Israel Science Foundation, Leszek Kołakowski Honorary Fellowship of the *Foundation for Polish Science*.

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

Member of the Scientific committee of the doctoral program “Philosophy, Science, Cognition, and Semiotics,” university of Bologna (2019-).

### **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–), *Physis. Rivista internazionale di storia della scienza* (2020–).

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<sup>e</sup> 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, European Journal for Philosophy of Science, Oxford Studies in Early Modern Philosophy, Rivista di storia della filosofia.*

Referee (presses): Leo Olschki, Centre national du livre, Presses universitaires de Strasbourg, Routledge, Presses de l'ENS.

### **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 (2016–2022).

Membre sociétaire de la Société française de la philosophie (2019–)

### **Selected public engagement**

**Blogging:** *Évaluation de la recherche en SHS*, <http://evaluation.hypotheses.org/> (2009–), *Academia. Informations sur l'emploi des enseignant-e-s chercheur-se-s en sciences humaines et sociales*, <http://academia.hypotheses.org/> (2012–2017).

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

**Festival:** *Sciences et Cinéma À nous de voir* (2006-2008) and 2014, *Nuit Sciences, Cinéma, Révolutions* with *Séances Publiques* (2016), *Night of Philosophy* (New York 2014, Stockholm 2017).

Other presentations at colleges and public events.