

# Angela Axworthy

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## Curriculum vitae

### Education, Qualifications and Research positions

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2017-2018 Two-year post-doctoral fellowship at the Technische Universität (Berlin) in the framework of the research fellowship program of the Berlin Center for the History of Knowledge, to study *The status of practical geometry and its relations to theoretical and applied geometrical knowledge in sixteenth-century treatises of practical geometry*.

2015-2016 Two-year post-doctoral fellowship at the Department I of the Max Planck Institut for the History of Science to write and publish a source study (*The 1531 Edition of the Commentaries on Sacrobosco's 'Tractatus de Sphaera' of Prosdocimo de' Beldomandi and Bartolomeo Vespucci*) in the framework of the Edition Open Sources book series of the MPIWG and of the University of Oklahoma.

2012-2014 Post-doctoral Research Fellow at the Max Planck Institut for the History of Science (M.P.I.W.G.), Berlin, Germany, in Vincenzo De Risi's group on Modern geometry and the Concept of Space. Research project on *The ontological status of geometrical objects in the commentary on the Elements of Euclid of Jacques Peletier du Mans (1517-1582)* directed by Vincenzo de Risi. (Funding : "Fernand Braudel – IFER outgoing" fellowship from the "Fondation Maison des sciences de l'homme" (Paris) and M.P.I.W.G.)

2012 Qualification by the C.N.U. (French national council of universities) to teach as a lecturer in philosophy and history of science (sections 17 and 25).

2011 (December 5) PhD in philosophy (First class honours), Centre d'Études Supérieures de la Renaissance (C.E.S.R.), Université François-Rabelais, Tours, France. (Funding : Université de Tours)

Thesis written under the supervision of Joël Biard on *The Status of Mathematics in France during the Sixteenth Century: The Case of Oronce Fine (Le statut des mathématiques en France au XVI<sup>e</sup> siècle : le cas d'Oronce Fine)*.

2006 (September 22-29) Specialization course (*Scuola estiva di specializzazione*) on Renaissance technical drawing organised by the Biblioteca leonardiana of the Commune di Vinci, Italy.

2005 Master's degree in philosophy (First class honours), C.E.S.R., Tours, France.

Thesis written under the supervision of Joël Biard on *The Status of the Mathematical Object according to Federico Commandino (Le statut de l'objet mathématique chez Federico Commandino)*.

2004 “Maîtrise”, in philosophy (First class honours), C.E.S.R., Tours, France.

Thesis written under the supervision of Joël Biard on *The Status of Mathematics in the Sixteenth Century in the prefaces of Niccolò Tartaglia and Christophorus Clavius’ commentaries on Euclid’s Elements (Le statut des disciplines mathématiques au XVI<sup>e</sup> siècle au regard des préfaces aux Éléments d’Euclide de Niccolò Tartaglia et de Christophe Clavius)*.

2002 Bachelor of Arts in philosophy (Second class honours), Université François-Rabelais, Tours, France.

## Awards

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2012 Annual prize of the Société Française d’Histoire des Sciences et Techniques (S.F.H.S.T.) for the best doctoral thesis in History of Sciences and Techniques.

2005 Annual prize of the S.F.H.S.T. for the best “maîtrise” dissertation in History of Sciences and Techniques.

## Publications

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2017 “*Epistemological and ontological aspects of the debate between Jacques Peletier du Mans and Christoph Clavius over the admissibility of superposition in geometry*”, submitted to *Historia mathematica* and in revision.

2017 “Le statut épistémologique de la géométrie d’après l’*Introductio in Geometriam* de Charles de Bovelles”, to be published by Beauchesne in the Proceeding of the conference intitled *Charles de Bovelles : Philosophe et Pédagogue*, (Tours, C.E.S.R., 26-27 March 2012), edited by Anne-Hélène Klinger-Dollé and Emmanuel Faye.

2016 *Le Mathématicien renaissant et son savoir. Le statut des mathématiques selon Oronce Fine*, Paris, Classiques Garnier, collection “Histoire et Philosophie des Sciences” directed by Bernard Joly and Vincent Jullien.

2013 “The ontological status of geometrical objects in the commentary on the Elements of Euclid of Jacques Peletier du Mans (1517-1582)”, Working Paper of the F.M.S.H., published on-line on hypotheses.org.

2009 “The Epistemological Foundations of the Propaedeutic Status of Mathematics according to the Epistolary and Prefatory Writings of Oronce Fine”, in Alexander Marr (ed.), *The Worlds of Oronce Fine: Mathematics, Instruments and Print in Renaissance France*, Donington, Shaun Tyas, 2009, p. 31-51.

## Talks and lectures

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2017 (January 18) “The status of practical geometry and its relations to theoretical and applied geometrical knowledge in sixteenth-century treatises of practical geometry” (Research project presentation), Postdoc workshop of the Berlin Center for the History of Knowledge organized by Hansjakob Ziemer, MPIWG, Berlin.

2016 (Dezember 15) “Oronce Fine’s project for the revival of mathematics in sixteenth-century Paris”, Research workshop *Teaching mathematics in the early modern world* organized by Benjamin Wardhaugh, All Souls College, University of Oxford.

2016 (November 24) “La forme, le contenu et la finalité de la géométrie pratique d’Oronce Fine”, *Harriot seminar* organized by Stephen Clucas, Birkbeck College, London.

2016 (July 11) “La forme, le contenu et la finalité de la géométrie pratique d’Oronce Fine”, History of mathematics seminar organized by Rossana Tazzioli, University of Lille 1.

2016 (June 24) “Mathematical teaching from the Faculty of Arts to the Institution of the Royal Lecturers in early sixteenth-century France”, Three Societies Conference, Edmonton (Alberta).

2016 (April 29) “Prosdocimo de’ Beldomandi and Bartolomeo Vespucci on the geometrical definitions of the sphere in Sacrobosco’s *Sphaera*”, Lunch talk organized by Peter Barker for the History of Science Department of the University of Oklahoma, Norman (Oklahoma).

2016 (January 28) Lecture on Francis Bacon’s *New Atlantis* for the Liberal Arts course on “Early Modern Science” organized by Ewa Atanassow and Michael Weinman, Bard College, Berlin.

2015 (December 18) Teaching session on “the uses and rejection of starless mobile spheres above the Firmament in sixteenth century cosmology” for the teaching seminar of Matteo Valleriani (M.P.I.W.G.) on Late medieval geocentric cosmology, Technische Universität, Berlin.

2015 (November 25) “The geometrical definition of the sphere in Sacrobosco’s *Sphaera* according to Prosdocimo de’ Beldomandi (1370/80-1428) and Bartolomeo Vespucci (1479-1527)”, research seminar organized by Anna Jerratsch and Pietro D. Omodeo on the transformations of cosmological knowledge, Department I of the M.P.I.W.G.

2015 (September 29) “Jacques Peletier du Mans (1517-1582) and Christoph Clavius (1538-1612) on the superposition of geometrical figures : a sixteenth-century debate on the ontological and epistemological status of geometrical objects and procedures”, *Lunch talk* organized by the interdisciplinary laboratory “Bild Wissen Gestaltung” of the Humboldt-Universität in Berlin.

2015 (July 6-8) “The Euclidean Definition of the Sphere in the Middle Ages and in the Renaissance: from the commentaries on Sacrobosco’s Sphere to the commentaries on Euclid’s Elements”, *Geometry and Space in the Early Modern Age*, conference organized by Vincenzo De Risi for the research group on “Modern geometry and the concept of space” of the M.P.I.W.G.

2015 (March 13) “La forme des traités de mathématiques pratiques d’Oronce Fine”, Université Bordeaux-Montaigne, in the framework of the seminar on “Forms of knowledge” (“Formes du savoir”) organized by Violaine Giacomotto-Charra and Pascal Duris.

2014 “The epistemological and ontological background of the debate on superposition between Jacques Peletier du Mans (1517-1582) and Christophorus Clavius (1538-1612)”, HOPOS 2014, Ghent, Belgium (July 2-5).

2014 (June 23-25) “Sixteenth-century Interpretations of the Nature and Use of Motion in Geometry”, *The Mechanization of Geometry. From Antiquity to the Modern Age*, conference organized by Vincenzo De Risi for the research group on “Modern geometry and the concept of space” of the M.P.I.W.G.

2014 (April 17) “The notion of flow of the point as a principle of generation of the line in the Renaissance Euclidean tradition”, history of science seminar (H.E.S.T.) organized by François Loget and Marc Moyon for the I.R.E.M. of Limoges.

2014 (March 25) “Renaissance interpretations of the geometrical notion of rhusis”, colloquium organized by Vincenzo De Risi at the M.P.I.W.G..

2013 (July 24) “The Purpose, Modalities and Limits of the Admission of Movement in the Definition and Study of Geometrical Objects in the Sixteenth-century Euclidean Tradition: Oronce Fine (1494-1555), Jacques Peletier du Mans (1517-1582) and Christoph Clavius (1538-1611)”, M.P.I.W.G. Summer colloquium organized by Vincenzo De Risi.

2013 (January 27) “The status of geometrical objects in the commentary of the *Elements* of Euclid of Jacques Peletier du Mans (1557)”, Paris, seminar on the “Mathematics in the Renaissance” organised by Sabine Rommevaux and Odile Kouteynikoff (UMR 7219 – SPHERE).

2012 (December 11) “A few Renaissance interpretations of Proclus’ *In Euclidem*: from Oronce Fine to Christoph Clavius”, Paris, “Neoplatonic workshop”, organised by Pierre Caye, Philippe Hoffmann, Christian Jambet and Stéphane Toulouse for the Collège International de Philosophie.

2012 “The epistemological status of geometry according to Charles de Bovelles”, Tours, C.E.S.R. conference *Charles de Bovelles, Philosophe et Pédagogue*, organized by Emmanuel Faye, Anne-Hélène Klinger-Dollé et Joël Biard (March 26-27).

2011 “The influence of Proclus on Oronce Fine’s conception of geometry”, Nantes, IV<sup>th</sup> congress of the S.F.H.S.T. (May 18-20).

2010 “The demonstration of the utility of mathematics in the prefatory discourse of Oronce Fine”, Tours, C.E.S.R., conference on “The conceptions on mathematics of Renaissance authors” (8-10 December).

2008 “Federico Commandino and Christophorus Clavius’ reception of Proclus”, Paris, III<sup>rd</sup> Congress of the S.F.H.S.T. (September 4-6.)

2007 (May 11) “The utility of mathematics in Oronce Fine’s thought”, Tours, C.E.S.R., post-graduate seminar.

2004 (April 27) “The influence of Proclus on Clavius’ conception of the utility of mathematics”, Tours, C.E.S.R., post-graduate seminar.