

## JACQUELINE ANN FEKE

Department of Philosophy  
University of Waterloo  
J.G. Hagey Hall of the Humanities, Room 326  
200 University Avenue West  
Waterloo, ON, N2L 3G1, Canada  
jfeke@uwaterloo.ca

### APPOINTMENTS

#### Academic Appointments

2020 – Associate Professor, Department of Philosophy, University of Waterloo  
• Cross-appointed to the Department of Classical Studies  
2015 – 2020 Assistant Professor, Department of Philosophy, University of Waterloo  
• Cross-appointed to the Department of Classical Studies  
2012 – 2015 Harper-Schmidt Fellow and Collegiate Assistant Professor, University of Chicago  
Summer 2013 Postdoctoral Research Fellow, Max Planck Institute for the History of Science, Berlin, Germany  
2009 – 2012 Postdoctoral Fellow, Stanford University

#### Visiting and Honorary Appointments

2021 – Senior Fellow, Massey College, University of Toronto  
2018 – 2019 Visiting Scholar, Institute for the History and Philosophy of Science and Technology, University of Toronto  
Spring 2018 Visiting Scholar, l'École des Hautes Études en Sciences Sociales, Paris, France

### EDUCATION

2009 Ph.D., University of Toronto  
2004 M.A., University of Toronto  
2003 B.A., Honors, Brown University  
Spring 2002 King's College London, University of London

### PUBLICATIONS

#### Book

*Ptolemy's Philosophy: Mathematics as a Way of Life*. Princeton: Princeton University Press, 2018.

- Published in paperback, Oct. 2020
- Shortlisted for the Pickstone Prize, British Society for the History of Science

- Reviews:

*Historia Mathematica* 54 (Feb. 2021): 117-119

*Isis* 111.4 (Dec. 2020): 866-867

*The International Journal of the Platonic Tradition* 14.1 (May 2020): 97-98

*Metaphilosophy* 51.1 (Jan. 2020): 151-155

*Phronesis* 64.4 (Oct. 2019): 520

*Bryn Mawr Classical Review* 2019.07.10

Zentralblatt MATH 1397.00030

*Journal for the History of Astronomy* 50.2 (2019): 249-250

*Notre Dame Philosophical Reviews* 2019.04.10

*Choice* 56.7 (2019): 892

*British Journal for the History of Mathematics* 34.2 (2019): 118-119

*Aestimatio* 14 (2019): 27-37

*Kwartalnik Historii Nauki i Techniki* 64.4 (2019): 197-201

*European Mathematical Society* 8 Nov. 2018

### Refereed Journal Articles and Book Chapters

“The Principles of Ptolemy’s Philosophy of Science.” *The Philosophy of Ptolemy and its Byzantine, Arabic and Hebrew Reception*. Ed. Alan C. Bowen and Emma Gannagé. Leiden: Brill, in press.

“Ancient Greek Laws of Nature.” *Studies in History and Philosophy of Science* 107 (Oct. 2024): 92-106.

“On the Need to Re-examine the Relationship between the Mathematical Sciences and Philosophy in Greek Antiquity.” *Anachronisms in the History of Mathematics: Essays on the Historical Interpretation of Mathematical Texts*. Ed. Niccolò Guicciardini. Cambridge: Cambridge University Press, 2021. 105-130.

“Ptolemy’s Philosophy of Geography.” *Claudio Ptolomeo: Geografía (Capítulos teóricos)*. Ed. René Ceceña. Mexico City: Facultad de Filosofía y Letras, Universidad Nacional Autónoma de México, 2018. 281-326.

“Meta-mathematical Rhetoric: Hero and Ptolemy against the Philosophers.” *Historia Mathematica* 41.3 (2014): 261-276.

“Mathematizing the Soul: The Development of Ptolemy’s Psychological Theory from *On the Kritêrion and Hêgemonikon* to the *Harmonics*.” *Studies in History and Philosophy of Science* 43.4 (Dec. 2012): 585-594.

“Ptolemy’s Defense of Theoretical Philosophy.” *Apeiron: A Journal for Ancient Philosophy and Science* 45.1 (Jan. 2012): 61-90.

(with Alexander Jones). “Ptolemy.” *Cambridge History of Philosophy in Late Antiquity*, vol. 1. Ed. Lloyd Gerson. Cambridge: Cambridge University Press, 2010. 197-209.

### Encyclopedia and Non-Refereed Journal Articles

“Geocentricity,” *Oxford Classical Dictionary*. Ed. Tim Whitmarsh. Oxford: Oxford University Press, June 18 2024. doi: <https://doi.org/10.1093/acrefore/9780199381135.013.2823>.

“The Ethics of Ancient Mathematics: The Case of Claudius Ptolemy,” *Canadian Mathematical Society Notes* 53.3 (June 2021): 10-11.

- “Théon d’Alexandrie.” *Dictionnaire des philosophes antiques*, vol. 6: de Sabinillus à Tyrsénos. Ed. Richard Goulet. Paris: CNRS Éditions, 2016. 1008-1016.
- “What Can We Know of What the Romans Knew? Comments on Daryn Lehoux’s *What Did the Romans Know? An Inquiry into Science and Worldmaking*.” *Expositions: Interdisciplinary Studies in the Humanities* 6.2 (2012): 23-32.
- “Ptolémée d’Alexandrie (Claude).” *Dictionnaire des philosophes antiques*, vol. 5, 2<sup>nd</sup> part: de Plotina à Rutilius Rufus. Ed. Richard Goulet. Paris: CNRS Éditions, 2012. 1718-33.

### Book Reviews

- Review of Gerardo Botteri and Roberto Casazza, *The Astronomical System of Aristotle: An Interpretation* (Leiden: Brill, 2023), *Journal for the History of Astronomy* (in press).
- Review of John M. Steele (ed.), *The Circulation of Astronomical Knowledge in the Ancient World* (Leiden: Brill, 2016), *Aestimatio* 13 (2019): 115-118.
- Review of Markus Asper (ed.) in collaboration with Anna-Maria Kanthak, *Writing Science: Medical and Mathematical Authorship in Ancient Greece* (Berlin: De Gruyter, 2013), *Aestimatio* 10 (2013): 352-354.
- Review of Karine Chemla (ed.), *The History of Mathematical Proof in Ancient Traditions* (Cambridge: Cambridge University Press, 2012), *Early Science and Medicine* 18.6 (2013): 568-570.
- Review of Nicholas Champion, *Astrology and Cosmology in the World's Religions* (New York: New York University Press, 2012), *Journal for the History of Astronomy* 44.4 (Nov. 2013): 492-493.
- Review of Olivier Darrigol, *A History of Optics: From Greek Antiquity to the Nineteenth Century* (Oxford: Oxford University Press, 2012), *Physics Today* 66.6 (June 2013): 52-53.
- Review of Jo Marchant, *Decoding the Heavens: A Two-Thousand-Year-Old Computer—and the Century-Long Search to Discover Its Secrets* (Cambridge, MA: Da Capo Press, 2009), *Isis* 101.1 (March 2010): 261-262.
- Review of James Evans and J. Lennart Berggren, *Geminus's Introduction to the Phenomena. A Translation and Study of a Hellenistic Survey of Astronomy* (Princeton: Princeton University Press, 2006), *Bryn Mawr Classical Review* 2007.04.35.

## PRESENTATIONS

### Invited Presentations

- 2024 “Are We Doomed? Utopian & Dystopian Literature: Plato’s *Republic* and E.M. Forster’s ‘The Machine Stops,’” University of Chicago, Chicago, IL, U.S.A.  
 • Discussed in Rivka Galchen, “Are We Doomed? A course at the University of Chicago thinks it through.” *The New Yorker*, June 10, 2024. 22-27.
- 2023 “Laws of Nature in Ancient Greek Philosophy and Mathematics,” Delphi Symposium on Greek Mathematics, European Cultural Centre of Delphi, Delphi, Greece  
 “Ptolemy’s Principles,” Gargnano Ancient Philosophy Sessions: Mathematics in Ancient Platonism, Università degli Studi di Milano, Gargnano, Italy  
 “Ptolemy’s Epistemology of Astronomy,” Seven Pines Symposium: Windows on the

- Universe: From Galileo to LIGO and Beyond, Stillwater, MN, U.S.A.
- 2022 “Ptolemy’s Principles,” Proof in Natural Philosophy: Between Antiquity and the Early Modern Period, Institute of Philosophy, Czech Academy of Sciences, Prague, Czech Republic
- 2020 BSHS Pickstone Book Prize Discussion Panel, BSHS Global Digital History of Science Festival, British Society for the History of Science, U.K.
- “Ancient Greek Mathematics as Philosophy,” Department of Philosophy, McMaster University, Hamilton, ON, Canada
- “Ancient Greek Mathematics as Philosophy,” Joint Mathematics Meetings: American Mathematical Society and Mathematical Association of America, Denver, CO, U.S.A.
- 2019 “Ancient Greek Mathematics as Philosophy,” Department of Philosophy, University of Guelph, Guelph, ON, Canada
- 2018 “The Physics of Ptolemy’s Astrology,” in symposium “Stabilities and innovations in the astral sciences: perspectives from Chinese, Sanskrit, Arabic, and Latin sources,” European Society for the History of Science in conjunction with British Society for the History of Science, London, U.K.
- “Ptolemy’s Harmonic Ethics,” SPHère (Sciences, Philosophie, Histoire), CNRS, and Observatoire de Paris, Paris, France
- “Ptolemy on Mathematics and Categories,” l’École des Hautes Études en Sciences Sociales, Paris, France
- “Ptolemy’s Harmonics,” SPHère, CNRS, and l’École des Hautes Études en Sciences Sociales, Paris, France
- “Ptolemy on Theoretical and Practical Philosophy,” l’École des Hautes Études en Sciences Sociales, Paris, France
- “Ptolemy’s Philosophy,” l’École des Hautes Études en Sciences Sociales, Paris, France
- “Re-examining the Distinction between Philosophy and the Mathematical Sciences in Greek Antiquity,” Anachronism(s) in the History of Mathematics: The Seventh Biennial Bacon Conference, California Institute of Technology, Pasadena, CA, U.S.A.
- “Ptolemy’s Ethics,” Program in the History of Science, Technology, and Medicine, University of Minnesota, Minneapolis, MN, U.S.A.
- “Ancient Greek Geographical Maps vs. Geometrical Diagrams,” Joint Mathematics Meetings: American Mathematical Society and Mathematical Association of America, San Diego, CA, U.S.A.
- 2017 “Three Ancient Greek Mathematicians Against Philosophers,” Department of Science & Technology Studies, York University, Toronto, ON, Canada
- “Ancient Greek Mathematicians: Intellectual Outliers,” Steeped Thoughts Award Lecture, FemPhys, University of Waterloo, Waterloo, ON, Canada
- 2016 “Ptolemy’s Theory of *Harmonia*,” On Mathemata: Commenting on Ancient Greek and Arabic Mathematical Texts, Philosophy, Science, and the Sciences, Humboldt-Universität zu Berlin, Berlin, Germany
- “Ptolemy’s Philosophy of Geography,” Institute for the History and Philosophy of

- Science and Technology, University of Toronto, Toronto, ON, Canada
- “Ptolemy’s Harmonic Ethics,” The Philosophy of Ptolemy and its Greek, Arabic, and Hebrew Reception, Department of Arabic and Islamic Studies, Georgetown University, Washington, D.C., U.S.A.
- Round table, The Foundations of Methodology in the History of Philosophy, Department of Philosophy, McMaster University; Trius Winery at Hillebrand, Niagara-on-the-Lake, ON, Canada
- “Geometry’s Indisputability: From Hero to Hobbes,” Joint Mathematics Meetings: American Mathematical Society and Mathematical Association of America, Seattle, WA, U.S.A.
- 2014 “Harmonic Ethics: Ptolemy’s Virtue Ethics for the Mathematician,” Department of Philosophy, University of Waterloo, Waterloo, ON, Canada
- 2013 “Ptolemy on Good Order in the Heavens and in the Soul,” Ancient Cosmos: Concord among Worlds, A CAMNE Conference, Durham University, Durham, U.K.
- “Ptolemy on Uniform Circular Motion,” Modern Geometry and the Concept of Space, Max Planck Institute for the History of Science, Berlin, Germany
- “Co-opting and Criticizing Philosophy: The Self Promotion of Ancient Greek Mathematicians,” Committee on Conceptual and Historical Studies of Science, University of Chicago, Chicago, IL, U.S.A.
- “Can We Write a History of ‘Science?’” Weissbourd Annual Conference, Society of Fellows in the Liberal Arts, University of Chicago, Chicago, IL, U.S.A.
- “Ancient Greek Mathematicians: Celebrities or Misfits?” University of Chicago Classics Society and Triple Helix, University of Chicago, Chicago, IL, U.S.A.
- “Promoting Mathematics in the Greco-Roman World,” Joint Mathematics Meetings: American Mathematical Society and Mathematical Association of America, San Diego, CA, U.S.A.
- 2012 “Ptolemy: The Black Sheep of Ancient Philosophy,” Weissbourd Symposium, Society of Fellows in the Liberal Arts, University of Chicago, Chicago, IL, U.S.A.
- “Polemical Astronomy,” Villanova Center for Liberal Education, Villanova University, Villanova, PA, U.S.A.
- “Ptolemy’s Polemical Prolegomena,” Mathematics as Literature/Mathematics as Text, a workshop sponsored by the Program in History and Philosophy of Science and Technology and the Department of Classics, Stanford University, Stanford, CA, U.S.A.
- 2011 “Astronomical Knowledge in Ptolemy’s *Almagest*,” Faculties of Philosophy and Classics, University of Oxford, Oxford, U.K.
- “Ptolemy’s Justification for the Study of Mathematics,” IHUM Research Colloquium, Stanford University, Stanford, CA, U.S.A.
- 2010 “Ptolemy’s Philosophy of Science,” Archives Henri Poincaré, Centre National de la Recherche Scientifique, Nancy-Université, Nancy, France
- “Ptolemy’s Ethics,” l’École des Hautes Études en Sciences Sociales, Paris, France

- 2009 “Ptolemy’s Unprecedented Philosophy,” Exzellenzcluster Normative Orders, Goethe-Universität Frankfurt, Frankfurt am Main, Germany  
 “Ptolemy’s Indisputable Mathematical Tools,” Joint Mathematics Meetings: American Mathematical Society and Mathematical Association of America, Washington, D.C., U.S.A.
- 2005 “Problematic Phenomena: The Peripatetic Debate over Explanations of Meteors, Comets, and the Milky Way,” Massey College, University of Toronto, Toronto, ON, Canada

### Conference Presentations

- 2024 “Ancient Greek Laws of Nature,” Canadian Society for the History and Philosophy of Science, Université du Québec à Montréal, Montréal, QC, Canada
- 2019 Author’s response for book symposium on *Ptolemy’s Philosophy: Mathematics as a Way of Life*, Canadian Philosophical Association, University of British Columbia, Vancouver, BC, Canada
- 2018 “Ptolemy on Nature,” HOPOS: The International Society for the History of Philosophy of Science, University of Groningen, Groningen, Netherlands
- 2017 “Image Making in Ptolemy’s Astronomy and Geography,” Biennial History of Astronomy Workshop, University of Notre Dame, Notre Dame, IN, U.S.A.  
 “Ptolemy’s Epistemology of Geography,” Canadian Society for the History and Philosophy of Science, Ryerson University, Toronto, ON, Canada
- 2016 “Ptolemy’s Astrological Rays,” Canadian Society for the History and Philosophy of Science, University of Calgary, Calgary, AB, Canada
- 2014 Commentary for session “Re-Appropriation and Memory in Early Science,” History of Science Society, Chicago, IL, U.S.A.
- 2012 “Meta-mathematical Rhetoric,” Three Societies: Joint Meeting of the British Society for the History of Science, Canadian Society for the History and Philosophy of Science, and the History of Science Society, Philadelphia, PA, U.S.A.
- 2011 “Ptolemy’s Philosophical Defense of Astronomy,” Biennial History of Astronomy Workshop, University of Notre Dame, Notre Dame, IN, U.S.A.
- 2010 “Ptolemy: Altering Data to Fit the Model,” History of Science Society, Joint Meeting with the Philosophy of Science Association, Montréal, Quebec, Canada
- 2009 “Mathematical Beauty in the texts of Plato, Aristotle, and Ptolemy,” Classical Association of Canada, University of British Columbia, Vancouver, BC, Canada
- 2008 “Ptolemy on the Mathematician’s Contribution to Physics and Theology,” Three Societies: Joint Meeting of the British Society for the History of Science, Canadian Society for the History and Philosophy of Science, and the History of Science Society, Keble College, University of Oxford, Oxford, U.K.; Classical Association of Canada, Université de Montréal, Montréal, QC, Canada

- 2007 “Ptolemy’s Mathematical Realism,” Canadian Mathematical Society, University of Western Ontario, London, ON, Canada  
 “Aristotle’s Theological Cosmology,” Canadian Society for the History and Philosophy of Science, University of Saskatchewan, Saskatoon, SK, Canada; Classical Association of Canada, Memorial University, St. John’s, NL, Canada
- 2006 “Epicurean Cosmology,” Classical Association of Canada, University of Toronto, Toronto, ON, Canada
- 2005 “Copernican Fiction,” in organized session “Kepler’s *Somnium*: A Scientific Cosmic Voyage in Content and Context,” Canadian Society for the History and Philosophy of Science, University of Western Ontario, London, ON, Canada

## TEACHING EXPERIENCE

(F=Fall, W=Winter, S=Spring)

### Course Instructor, Sole Responsibility

- S2024, F2022, W2019 “Ancient Science,” Dept. of Philosophy, University of Waterloo  
 S2024, W2019, F2016 “History of Ancient Philosophy: Plato’s Dialogues,” Dept. of Philosophy, University of Waterloo
- W2024, W2023, F2019, W2018, F2015 “Studies in Ancient Philosophy: Cosmology – Plato to Galileo,” Dept. of Philosophy, University of Waterloo
- W2024, F2022, F2021, F2020, W2020, W2017, W2016 “Great Works: Ancient and Medieval,” Dept. of Philosophy, University of Waterloo
- W2023, W2021, W2018, W2016 “Philosophy in Literature: Philosophy in Utopian and Dystopian Literature,” Dept. of Philosophy, University of Waterloo
- W2022, F2021 “Departmental Graduate Proseminar,” Dept. of Philosophy, University of Waterloo
- W2022, F2020, W2020, F2017 “Challenging Ideas: An Introduction to Philosophy,” Dept. of Philosophy, University of Waterloo
- W2021 “History of Ancient Philosophy” Dept. of Philosophy, University of Waterloo
- F2016, F2015 “Introduction to Philosophy: Knowledge and Reality,” Dept. of Philosophy, University of Waterloo
- F2012 – W2015 “Greek Thought and Literature,” Core course in the Humanities, University of Chicago
- F2008, W2009 “Introduction to Classical Mythology,” Dept. of Classics, University of Toronto
- S2007 “Latin and Greek in Scientific Terminology,” Dept. of Classics, University of Toronto

### Course Instructor, Shared Responsibility

- W2010 – S2010, “Philosophical Perspectives on Science,” Introduction to the

W2012 – S2012	Humanities, Stanford University
F2011	“Technological Visions of Utopia,” Introduction to the Humanities, Stanford University
W2011 – S2011	“The Fate of Reason,” Introduction to the Humanities, Stanford University
F2009	“Truth and Morality: One, Many, or None?” Introduction to the Humanities, Stanford University

## AWARDS, FELLOWSHIPS, AND GRANTS

### Awards and Fellowships

2020	Shortlist for Pickstone Prize, British Society for the History of Science <ul style="list-style-type: none"> <li>The panel decided that, due to the strength of the shortlisted books, they would not award a runner-up prize and instead would highlight the excellence of the three remaining shortlistees</li> </ul>
2012 – 2015	Arthur J. Ennis Postdoctoral Fellowship (Declined), Villanova Center for Liberal Education, Villanova University, Villanova, PA, U.S.A.
2009 – 2012	Research Collaboration, ‘Les mathématiques du cosmos: Ptolémée et ses héritiers dans l’antiquité, au Moyen-Age et à la Renaissance’, l’École des Hautes Études en Sciences Sociales, Paris, France Postdoctoral Research Assistantship (Declined), Exzellenzcluster Normative Orders, Goethe-Universität Frankfurt, Frankfurt am Main, Germany
2008 – 2009	Psi Iota Fellowship-in-Residence (Declined), Psi Iota Branch of Phi Alpha Theta, Dept. of History, Rowan University, Glassboro, NJ, U.S.A.
2004 – 2009	Junior Fellowship, Massey College, University of Toronto, Toronto, ON, Canada
2004	Brench Actus Memorial Essay Prize, Institute for the History and Philosophy of Science and Technology, University of Toronto, Toronto, ON, Canada <ul style="list-style-type: none"> <li>Awarded for the best essay written by a Master’s student at IHPST</li> </ul>
2003	Harvey A. Baker Fellowship, Brown University, Providence, RI, U.S.A. Bishop McVickar Prize, Dept. of Religious Studies, Brown University, Providence, RI, U.S.A. <ul style="list-style-type: none"> <li>Awarded for the best undergraduate honors thesis in religious studies</li> </ul>
2001	Odyssey Research Fellowship, Brown University, Providence, RI, U.S.A.

### Grants

2023 – 2024	University of Waterloo/SSHRC Explore Grant: \$7000
2017 – 2019	Social Sciences and Humanities Research Council (SSHRC) Insight Development Grant: \$58,198
2016 – 2017	University of Waterloo/SSHRC Seed Grant: \$5,472



2008 University of Waterloo/SSHRC Travel Grant: \$785  
 2006, 2007 Massey College Travel Grant, Massey College, University of Toronto: \$500  
 IHPST Travel Grant, Institute for the History and Philosophy of Science  
 and Technology, University of Toronto: \$750, \$1350  
 2004, 2006, 2007 Frederic Hudd Scholarship, Massey College, University of Toronto: \$500,  
 \$272, \$500  
 2005, 2006 Massey Graduate Fellowship, Massey College, University of Toronto: \$750,  
 \$207  
 2005 Ondaatje Scholarship, Massey College, University of Toronto: \$750

## SERVICE

2021 - Vice President, Commission for the History of Ancient and Medieval  
 Astronomy, Division of History of Science and Technology,  
 International Union of History and Philosophy of Science  
 Undergraduate Committee Member, Dept. of Philosophy, University of  
 Waterloo  
 2019 - Assistant Director, Research, Waterloo Institute for Hellenistic Studies,  
 University of Waterloo  
 2016 - Executive Committee Member, Waterloo Institute for Hellenistic Studies,  
 University of Waterloo  
 2022 Junior Fellows Selection Committee Member, Massey College, University of  
 Toronto  
 2020 - 2022 Career Advisor, Dept. of Philosophy, University of Waterloo  
 2020 Faculty Teaching Mentor, Dept. of Philosophy, University of Waterloo  
 Social Media and Alumni Relations Officer, Dept. of Philosophy,  
 University of Waterloo  
 2019 - 2020 Graduate Committee Member, Dept. of Philosophy, University of  
 Waterloo  
 2012 - 2019 Organizing Committee Member, Biennial History of Astronomy  
 Workshop XI - XIV (2013 - 2019), University of Notre Dame  
 2017 - 2018 Colloquium Coordinator, Dept. of Philosophy, University of Waterloo  
 2017 Graduate Committee Member, Dept. of Philosophy, University of  
 Waterloo  
 2015 - 2017 Social Media Officer, Dept. of Philosophy, University of Waterloo  
 2012 - 2017 Co-Chair, Early Science Forum, History of Science Society  
 2012 Boothe Essay Prize Committee Member, Introduction to the Humanities,  
 Stanford University  
 2010, 2012 Course Coordinator, "Philosophical Perspectives on Science," Introduction  
 to the Humanities, Stanford University  
 2011 Course Coordinator, "The Fate of Reason," Introduction to the  
 Humanities, Stanford University  
 Technology Coordinator, "Technological Visions of Utopia," Introduction

to the Humanities, Stanford University

2006 - 2009 Don (Residential Counselor), University of Toronto

2008 Head Teaching Assistant, "Scientific Revolutions II," Institute for the History and Philosophy of Science and Technology, University of Toronto

2006 - 2008 Co-Chair of the Environmental Committee, Massey College, University of Toronto

- Co-Coordinator of Walter Gordon Massey Symposium (2007): "Harnessing the Green Wave: Taking Action in an Era of Eco-Consciousness"

2006 - 2007 House Committee Member, Massey College, University of Toronto

2005 Program Committee Member, IHPST Graduate Student Conference: "The Transmission of Knowledge," Institute for the History and Philosophy of Science and Technology, University of Toronto

2004 - 2005 President, The HAPSAT Society, Institute for the History and Philosophy of Science and Technology, University of Toronto