

Siska De Baerdemaeker
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Education

- 2014 – ... **UNIVERSITY OF PITTSBURGH** – Doctoral Candidate in History & Philosophy of Science
- Dissertation: “Cosmology: The Impossible Integration?”
 - Committee: John Norton (chair), Arthur Kosowsky, Sandra Mitchell, James Woodward
- 2019 **UNIVERSITY OF EDINBURGH** – Visiting Graduate Student under supervision of Michela Massimi (February 10 – March 13)
- 2012 – 2014 **UNIVERSITY OF LEUVEN** – B.Sc. in Physics
- 2012 – 2013 **UNIVERSITY OF LEUVEN** – M.A. in Philosophy
- 2009 – 2012 **UNIVERSITY OF LEUVEN** – B.A. in Philosophy

Conference Participation

PEER-REVIEWED TALKS

- 2019 “Jump Ship, Shift Gears, or Just Keep on Chugging: Assessing the Responses to Tensions between Theory and Evidence in Contemporary Cosmology”, with Nora Boyd, Dark Matter and Modified Gravity, Aachen, Germany (February 6 – 8)
- 2018 “Integrating in the Face of Contradiction: Lessons from Cosmology”, 26th Biennial Meeting of the Philosophy of Science Association, Seattle, WA (November 1 – 4)
- 2018 “Evidential Integration in Cosmology”, &HPS: International Conference on Integrated History and Philosophy of Science, Hannover, Germany (July 5 – 7)
- 2018 “Integrating evidence in cosmology: the search for dark matter”, part of symposium “Philosophy of Astrophysical Practice”, 7th Biennial Conference of the Society for the Philosophy of Science in Practice, Ghent, Belgium (June 29 – July 1)
- 2016 “Georges Lemaître and the Role of Observations in Early Twentieth Century Relativistic Cosmology”
- 32nd Boulder Conference on the History and Philosophy of Science: “Gravity: Its History and Philosophy”, Boulder, CO (October 30)
 - History of Science Society Annual Meeting, Atlanta, GA (November 2)

INVITED TALKS

- 2019 “Philosophy of Cosmology”, Symposium Series of the CLPS, University of Leuven, Leuven, Belgium (March 15)
- 2019 Comments on “Models in Cosmology: Knowing What to Believe” (John Peacock), Cross-disciplinary Perspectives on Model-Independent Searches, Edinburgh, UK (February 11 – 12)
- 2018 Discussion leader for “Norton for Everyone? The Material Theory of Induction and Beyond”, Center for Philosophy of Science, Pittsburgh, PA (October 27 – 28)
- 2018 “Evidential Integration in Cosmology”, 2nd Leuven – Buenos Aires Workshop in Philosophy of Physics, Leuven, Belgium (July 22 – 23)

CAMPUS TALKS

- 2018 “Can Cosmology Probe Particle Physics Beyond the Standard Model?”, Arts & Sciences Graduate Student Expo, University of Pittsburgh, Pittsburgh, PA (March 23)
- 2017 “Natural Experiments in Cosmology”, Arts & Sciences Graduate Student Expo, University of Pittsburgh, Pittsburgh, PA (March 24)

INVITED DISCUSSANT

- 2018 22nd Seven Pines Symposium, “What Counts as Evidence?”, Stillwater, MN (May 16 – 20)
- 2017 21st Seven Pines Symposium, “Black Holes in the Spotlight”, Stillwater, MN (May 17 – 21)
- 2017 Philosophy of Cosmology Workshop. Organizer: Elise Crull, CUNY Graduate Center, New York City, NY
- 2017 “Methodology and Epistemology in Cosmology”, UC Irvine, Irvine, CA (February 10 – 12)
- 2016 20th Seven Pines Symposium, “Big Questions. Some Fundamental Problems in Physics”, Stillwater, MN (May 11 – 15)

SUMMER SCHOOL

- 2018 Rotman Summer Institute in Philosophy of Cosmology, Goderich, Ontario, Canada (June 11 – 20)
- 2015 3rd International Summer School in Philosophy of Physics, “The Ontology of Physics”, Saig, Germany (July 20 – 25)

Teaching Experience

PRIMARY INSTRUCTOR (UNIVERSITY OF PITTSBURGH)

- 2018 Space, Time, and Matter (Spring): history of cosmology and astronomy
- 2017 Principles of Scientific Reasoning (Fall)

TEACHING ASSISTANT (UNIVERSITY OF PITTSBURGH)

- 2016 Mind & Medicine (Spring): philosophy of medicine, philosophy of psychiatry. Primary Instructor: James Woodward
- 2015 Introduction to Philosophy of Science. Primary Instructor: Andrew Inkpen

TEACHING TRAINING

- 2016 – 2018 Achievement in Pedagogy Badge, offered by the Graduate Student Teaching Initiative at the Center for Teaching and Learning, University of Pittsburgh
- 2016 AAPT Workshop on Teaching and Learning in Philosophy with a Special Emphasis on Inclusive Pedagogy, University of Pittsburgh (February 4)

Service

CONFERENCE ORGANIZATION

- 2017 Co-organizer of “Super-PAC: Early Career Workshop in Philosophy of Astrophysics and Cosmology”, Center for Philosophy of Science, Pittsburgh, PA (October 27 – 29)
- 2015, 2017 Reviewer for the Pitt-CMU Graduate Student Conference

SERVICE TO THE DEPARTMENT

- 2018 – 2019 Co-organizer of a philosophy of cosmology discussion group with participants from the HPS department and the Physics department

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| 2018 – 2019 | Graduate student representative on the ALS Speaker Nomination Committee |
| 2018 | HPS Graduate Student Representative |
| 2016 – 2017 | HPS Representative to the Pitt Arts and Sciences Graduate Student Organization |
| 2015 | HPS Work In Progress Talks Organizer |

PUBLIC OUTREACH

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| 2019 | Public Lecture at the Amateur Astronomers Association of Pittsburgh (September 13) |
| 2019 | Guest on “Let’s Go to the Archives, Episode 2: Harmonia Macrocosmica”, available here: https://www.youtube.com/watch?v=8bfb7z0ME2A |
| 2018 | Astro on Tap talk: “You say you want a revolution (in your cosmological theories)?”, Pittsburgh, PA (April 26) |
| 2018 | Public Lecture at Allegheny Observatory: “Space Oddities”, Pittsburgh, PA (April 20). With Nora Boyd. |
| 2017 | Co-creator of an Instant HPS video on the discovery of Brownian motion, “The Botanist and the Sphynx”, available here : https://www.youtube.com/watch?v=qukJgpN_VSY . With William Penn and John Norton. |

REVIEWER

Synthese (2018), Philosophy of Science (2017)

Awards, Prizes & Recognition

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| 2019 | Wesley C. Salmon Fund, Research grant |
| 2018 | Wesley C. Salmon Fund, Travel grant (Spring and Fall) |
| 2018 | Outstanding Presenter Award at Pitt Graduate Student Expo |
| 2017 | Outstanding Presenter Award at Pitt Graduate Student Expo |
| 2016 | Wesley C. Salmon Fund, Travel grant (Spring and Fall) |
| 2015 | Wesley C. Salmon Fund, Research grant |
| 2014 – 2015 | Honorary Fellow of the Belgian American Education Fund |

Selected Graduate Coursework

HISTORY AND PHILOSOPHY OF SCIENCE

- History of Science I: History of the Physical Sciences (Paolo Palmieri)
- Philosophy of Science Core Seminar (John Norton)
- History of Science II: History of the Life Sciences (James Lennox)
- Experiment & Scientific Practice (Mazviita Chirimuuta)
- Recent Topics in Philosophy of Science (Adam Caulton)
- Recent Topics in Philosophy of Physics – Climate Science (Giovanni Valente)
- Einstein 1905 (John Norton)
- Models & Modeling (Sandra Mitchell & James Woodward)
- Galileo (Paolo Palmieri)
- Realism (Mazviita Chirimuuta)
- Theories of Confirmation (John Norton)
- Science and Metaphysics (Porter Williams) – *audit*
- Modern Cosmology (John Norton) – *audit*
- Recent Topics in Philosophy of Physics (Harvey Brown) – *audit*

PHILOSOPHY AND HISTORY OF PHILOSOPHY

- Topics in Logic (Michael Caie)
- Locke & Leibniz (Peter Machamer)
- Scholasticism (Paolo Palmieri)

PHYSICS

- Nuclear and Particle Physics (Ayres Freitas)
- General Relativity I (Eric Swanson)
- Particle Astrophysics (Ayres Freitas)
- General Relativity II (Eric Swanson) – *audit*
- Topics in Quantum Physics – Physics at the LHC (Tae Min Hong) – *audit*