

# JACO DE SWART

Massachusetts Institute of Technology  
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## EXPERIENCE

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<b>Massachusetts Institute of Technology</b> AIP Helleman Postdoctoral Fellow, Program in STS	2022-2024
<b>University of Amsterdam</b> Postdoctoral Researcher, Department of Anthropology	2022-2022
<b>University of Amsterdam</b> PhD Candidate in History of Physics, Institute of Physics	2016-2022
<b>Institute for Advanced Study, Princeton</b> Visitor   Host: Piet Hut	Fall 2019
<b>Princeton University</b> Visiting Student   Hosts: David Spergel, Michael Gordin	Fall 2014

## EDUCATION

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<b>MSc Theoretical Physics</b> University of Amsterdam	2016
<b>MA Philosophy</b> University of Amsterdam	2013
<b>BA Philosophy</b> University of Amsterdam	2011
<b>BSc Bèta Gamma</b> University of Amsterdam	2010

## PUBLICATIONS

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### *Journal Articles*

de Swart, J., Bertone, G. & van Dongen, J. (2017). How dark

matter came to matter. *Nature Astronomy*, 1, 0059

### **Book Chapters**

de Swart, J. (2020). Cosmology's Rebirth and the Rise of the Dark Matter Problem. In: A. Blum, R. Lalli and J. Renn (eds.), *The Renaissance of General Relativity in Context. Einstein Studies*, vol. 16. London: Birkhauser

### **Book Reviews**

de Swart, J. (2019). Deciphering dark matter: the remarkable life of Fritz Zwicky, *Nature*, 573, 32-33

### **Other**

de Swart, J.G. (2017). How we lost 85% of the universe. *Viewpoint*, 113, 11

## **AWARDS**

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American Institute of Physics, Helleman Memorial Postdoctoral Fellowship	2022
Dutch Society for the Advancement of Science and Medicine, Travel Grant	2019
American Institute of Physics, Center for History of Physics, Grant-in-Aid	2014

## **INVITED TALKS**

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UC Santa Cruz, Santa Cruz Institute for Particle Physics	03-2023
MIT Laboratory of Nuclear Science (US)	10-2022
Vossius Center for History of Humanities and Sciences, Amsterdam (NL)	05-2022
Max Planck Institute for History of Science, Online	04-2021
Institute for Advanced Study, Princeton NJ (US)	10-2019
National Air and Space Museum, Washington DC (US)	10-2019
Complutense University Madrid (ES)	06-2019
Kapteyn Institute for Astronomy, Groningen (NL)	06-2019
RWTH Aachen (DE)	02-2019
Karlsruhe Institute of Technology (DE)	01-2019
King's College London (EN)	12-2018
University of Heidelberg (DE)	06-2018
National Institute for High Energy Physics, Nikhef (NL)	12-2017
American Institute of Physics, College Park (US)	11-2014

## CONFERENCE TALKS

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American Philosophical Society, Philadelphia (Online)	06-2020
History of Science Society, New Orleans (US)	<i>postponed</i>
Dutch Graduate Conference in History of Science, Rolduc (NL)	02-2019
Society for Philosophy of Science in Practice, Ghent (BE)	07-2018
European Philosophy of Science Association, Dusseldorf (DE)	09-2015
Society for Philosophy of Science in Practice, Aarhus (DK)	06-2015
Dutch Graduate Conference in Philosophy, Nijmegen (NL)	03-2015

## ORGANIZED SYMPOSIA & CONFERENCES

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<b>Ways of Knowing the Universe</b>	<i>postponed</i>
History of Science Society Meeting '20, ft. Jordan Bimm a.o.	
<b>Dutch Graduate Conference in History of Science</b>	02-2019
Rolduc Abbey, Kerkrade (NL), co-organizer	
<b>Philosophy of Astrophysics in Practice</b>	07-2018
Philosophy of Science in Practice '18, Ghent (BE), ft. Mauricio Suárez a.o.	
<b>First Tylers Meeting on History of Astronomy and Physics</b>	04-2017
Tylers Museum, Haarlem (NL), co-organizer	

## TEACHING

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*University of Amsterdam:*

<b>The Science and Life of Albert Einstein</b>	2019/2020/2021
Institute of Physics, Teaching Assistant	
<b>Reflection on Physics</b>	2019/2020
Institute of Physics, Teaching Assistant	
<b>Science in Action</b>	2019
Van 't Hoff Institute for Molecular Sciences, Teaching Assistant	
<b>Interdisciplinary Research Projects</b>	2016/2017/2018
Institute for Interdisciplinary Studies, Supervisor	
<b>Philosophy of Science</b>	2016/2017/2018
Institute for Interdisciplinary Studies, Lecturer	
<b>Turning Points in the Natural Sciences</b>	2014/2015/2016
Institute for Interdisciplinary Studies, TA & Coordinator	
<b>Electricity and Magnetism</b>	2010
Institute of Physics, Teaching Assistant	

## OUTREACH

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- Organizer:** Rock 'n' Roll Academy 2020  
Talk series on science and rock music at Hard Rock Hotel Amsterdam.
- Presenter:** Veronica Academy 2019-2020  
Presenter of a web series on the science behind science fiction.
- Table guest:** Studio Max Live 2013-2014  
Live guest for science news at a talk show on Dutch public television.

## MEDIA APPEARANCES

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### Newspaper

- NRC, 'De Zoektocht naar Donkere Materie' (14.10.2022)  
De Volkskrant, 'Materie Myserie' (29.04.2022)  
Het Parool, 'De Geboorte van Donkere Materie' (19.02.2022)  
Algemeen Dagblad, 'Eureka' column (07.11.2020)  
Folia Magazine, on rock-'n'-roll academy (08.10.2020)

### Video

- Universiteit van Nederland, 'Wat is donkere materie' (24.05.2022)  
Folia Magazine, on *Nature Astronomy* publication (02.03.2017)

### Podcasts

- Verrukkelijke Wetenschap, 'Wat is donkere materie?' (26.10.2022)  
Universiteit van Nederland, 'Wat is donkere materie' (09.01.2022)  
Radio Swammerdam, on dark matter (18.02.2019)  
Makkelijk Praten Podcast, on dark matter research (27.08.2018)

### Live

- RTL 4, 'Beau', table guest on black holes (12.05.2022)  
NPO Radio 1, 'De nacht van' (14.04.2022)  
NPO Radio 1, 'OVT' (19.01.2022)  
Nationale Wetenschapsagenda, live stream on black holes (7.10.2021)  
New Scientist, book release 'Steven Hawking' (08.09.2020)  
NPO Radio 1, on new dark matter results (02.08.2020)

### Features

- Jansen, J. & Jansen, D. (2020). *CoronA tot Z*. Fontaine Uitgevers, pp. 35-36  
Tijd voor Max, on 'CoronA tot Z' (02.12.2020)

## PROFESSIONAL ACTIVITIES

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- Reviewer:** MIT Press, Studies in History and Philosophy of Modern Physics, European Journal for Philosophy of Science 2018 -
- Member:** Advisory Board of Institute for Interdisciplinary Studies, UvA 2017-2022

**Member:** Institute of Physics PhD Council, University of Amsterdam 2018-2021  
**Member:** Faculty of Science PhD Council, University of Amsterdam 2016-2018

## OTHER

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Bassist in semi-professional rock band X Raiders 2008 -  
City cleaning at volunteering collective Troep Troep 2020 -

## REFERENCES

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**Prof. David Kaiser**, Massachusetts Institute of Technology, [dikaiser@mit.edu](mailto:dikaiser@mit.edu)  
**Prof. Jeroen van Dongen**, University of Amsterdam, [j.e.a.f.vandongen@uva.nl](mailto:j.e.a.f.vandongen@uva.nl)  
**Prof. Gianfranco Bertone**, University of Amsterdam, [g.bertone@uva.nl](mailto:g.bertone@uva.nl)  
**Prof. Erik Verlinde**, University of Amsterdam, [e.p.verlinde@uva.nl](mailto:e.p.verlinde@uva.nl)  
**Prof. Piet Hut**, Institute for Advanced Study, Princeton, [piet@ias.edu](mailto:pier@ias.edu)