

# Curriculum vitae

## Personal information

First name, Surname:	Jan Sigurd Fuglestedt		
Date of birth:	19.05.1960	Sex:	Male
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	Researcher unique identifier(s): orcid.org/0000-0001-6140-8374. Author ID: 9636594900.		
URL for personal website:	<a href="http://cicero.uio.no/no/om-oss/ansatte/37/jan-s-fuglestedt">http://cicero.uio.no/no/om-oss/ansatte/37/jan-s-fuglestedt</a>		

## Education

Year	Faculty/department - University/institution - Country
1995	Ph.D. Dept of Chemistry, University of Oslo, Norway
1986	Master. Dept of Chemistry, University of Oslo, Norway

## Positions - current and previous

Year	Job title – Employer - Country
2016 -	Research Director/ Special Adviser, CICERO Center for International Climate Research
1998-2016	Research Director, CICERO Center for International Climate Research, Norway
1992-1998	Researcher, CICERO Center for International Climate Research, Norway
1989-1992	Higher executive officer, Natural Resource Department, Statistics Norway
1988-1989	Engineer, Air Pollution Division, Norwegian Environment Agency, Norway
1987-1987	Vitenskapelig assistent, Senter for Utvikling og Miljø, University of Oslo, Norway

## Career breaks

Year	Reason
1994/1998	Parental leaves

## Project management experience

Year	Project owner - Project - Role - Funder
2000-	CICERO's PI for various EU projects; METRIC, QUANTIFY, ATTICA, REACT4C, ECLIPSE, ACACIA
	Leader for projects funded by the Research Council of Norway:

	<p>ArcAct - Unlocking the Arctic ocean: The climate impact of increased shipping and petroleum activities. (2008-2013)</p> <p>Co-Manager for HappiEVA 2016-2018</p> <p>WP leader of various projects funded by the Norwegian Research Council (e.g. TEMPO)</p>
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### Supervision of students (Total number of students)

Master's students	Ph.D. students	University/institution - Country
	2	Department of Geosciences, University of Oslo, Norway

### Other relevant professional experiences

Year	Description - Role
2002-2004	Member of the Scientific Coordination Committee in the UNFCCC initiated process on modeling and assessment of contributions to climate change (MATCH)
2011	Served as an expert consultant to the US EPA's Advisory Council on Clean Air Compliance Analysis for review of EPA's draft report to Congress on Black Carbon.
2013-2022	Member of Impact and Science Group (ISG), Committee for Aviation Environmental Protection (CAEP) of the International Civil Aviation Organization (ICAO)
2014-2016	Member of the Expert Panel for the initiative "Global guidance on environmental life cycle impact assessment indicators", which aims to revise and update the frameworks of environmental impact indicators in Life-Cycle Assessment (LCA). Initiated by United Nations Environment Programme (UNEP) and the Society of Environmental Toxicology and Chemistry (SETAC).
2014-	Member of Norwegian Minister of Climate and Environment's Climate Advisory Board.
2015-2023	Vice chair of Intergovernmental Panel on Climate Change (IPCC) Working Group 1
	<p>PhD Dissertation evaluation, University of Melbourne (2018)</p> <p>PhD Dissertation evaluation, University of Oxford (2017)</p> <p>Ph Dissertation evaluation, University of Oslo (2000)</p>
1995-	Reviewer: Nature Climate Change, Proceedings of the National Academy of Sciences, Tellus Environmental Science & Technology, Environmental Research Letters, Geophysical Research Letters, Atmospheric Chemistry and Physics, Climatic Change, and others.
2001-	Various invited lectures at courses given Dept of Geosciences, Univ of Oslo, Norway
2001-2002	Lecturer – GF327- Atmospheric Chemistry, Dept of Geosciences, Univ of Oslo, Norway
2018-	Lectures about IPCC at "TIK4011 – Science and Technology in Politics and Society", University of Oslo, Norway

2016-2017	Member of Scientific Steering Committees for <i>1point5 conference Oxford</i> : <a href="https://www.1point5degrees.org.uk/">https://www.1point5degrees.org.uk/</a>
2016-	Member of the Scientific Steering Committee of the project <i>Half a degree Additional warming, Projections, Prognosis and Impacts (HAPPI)</i> <a href="http://www.happimip.org/">www.happimip.org/</a>
2018-2019	Member of the Scientific Steering Committee Scenarios Forum 2019; <a href="https://www.scenariosforum2019.com/">https://www.scenariosforum2019.com/</a>
2017-2018	Member of the Scientific Steering Committee IPCC Expert Meeting on Short-lived Climate Forcers (SLCF)
2013-2019	Member of conference committee for NCGG7 and NCGG8 - 7th and 8th International Symposium on Non-CO <sub>2</sub> Greenhouse Gases
2018 -	Member of the Scientific Steering Committee for <i>The Reduced Complexity Model Intercomparison Project (RCMIP)</i> <a href="https://www.rcmip.org/">https://www.rcmip.org/</a>
2019-2020	<i>Member of conference committee for the conference "Achieving Net Zero"</i>
2020-	Member of the Editorial board for the journal <i>Oxford Open Climate Change</i> <a href="https://academic.oup.com/oocc">https://academic.oup.com/oocc</a>
2021-	Member of the Scientific Steering Committee for Scenarios Forum 2022; <a href="https://scenariosforum.org/">https://scenariosforum.org/</a>
2022-	Appointed member of the Norwegian reference group for Horizon Europe Cluster 5
2022-	Member of The Integrated Assessment Modeling Consortium (IAMC) Scientific Working Group on Scenarios
2022-2025	Member of Impact and Science Group (ISG), Committee for Aviation Environmental Protection (CAEP) of the International Civil Aviation Organization (ICAO)
2023-	Vice chair of Intergovernmental Panel on Climate Change (IPCC) Working Group 3 <a href="https://www.ipcc.ch/working-group/wg3/">https://www.ipcc.ch/working-group/wg3/</a>
2024-2027	Member of the Advisory Council for Integrated Assessment Modeling Consortium (IAMC). <a href="https://www.iamconsortium.org/about-us/governance/advisory-council/">https://www.iamconsortium.org/about-us/governance/advisory-council/</a>

## Track record

Dr. Jan S. Fuglestad is Research Director/Special Advisor at CICERO. He has centered his research on atmospheric chemistry and climate interactions, and modelling of atmospheric and climatic impacts of different human activities, in particular the climate impacts of the transport sectors. He has also actively contributed to research on the effects of short-lived climate forcers and their potential role in mitigation strategies. He has 112 publications, 12625 citations and h-index: 51 (based on Web of Science, 25 March 2024).

He was Lead Author in IPCC AR5 WGI, Contributing Author in WGIII and Member of the Core Writing Team for the Synthesis Report. In October 2015 Fuglestad was elected Vice-Chair of IPCC WGI and has been

very active in the preparation and writing of the IPCC reports in the 6<sup>th</sup> cycle of IPCC. He was Review Editor of *chapter 2 Mitigation Pathways Compatible with 1.5°C in the Context of Sustainable Development* in the IPCC Special Report on Global Warming of 1.5°C from 2018. In July 2023 Fuglestedt was elected Vice-Chair of IPCC WGIII for the 7<sup>th</sup> cycle of IPCC.

#### Ten selected publications:

Pirani, A., **Fuglestedt**, J. S., Byers, E., O'Neill, B., Riahi, K., Lee, J.-Y., Marotzke, J., Rose, S., Schaeffer, R., Tebaldi, C., Scenarios in IPCC assessments: lessons from AR6 and opportunities for AR7. *npj Clim. Action* **3**, 1 (2024). <https://doi.org/10.1038/s44168-023-00082-1>

**Fuglestedt**, J. S., Lund, M.T., Kallbekken, S., Samset, B.H., Lee, D.S. A 'greenhouse gas balance' for aviation in line with the Paris Agreement. *WIRE Climate Change* 12 June 2023 <https://doi.org/10.1002/wcc.839>

Nicholls, Z., Meinshausen, M., Lewis, J., Smith, C. J., Forster, P. M., **Fuglestedt**, J. S., Rogelj, J., Kikstra, J.S., Riahi, R., Byers, E. (2022). Changes in IPCC Scenario Assessment Emulators Between SR1.5 and AR6 Unraveled. *Geophysical Research Letters*, 49(20), e2022GL099788. doi:<https://doi.org/10.1029/2022GL099788>

Samset, B.H., **Fuglestedt**, J.S. & Lund, M.T. Delayed emergence of a global temperature response after emission mitigation. *Nature Communications* 11, 3261, 2020. <https://doi.org/10.1038/s41467-020-17001-1>

O'Neill, Carter, Ebi, Harrison, Kemp-Benedict, Kok, Kriegler, Preston, Riahi, Sillmann, van Ruijven, van Vuuren, Carlisle, Conde, **Fuglestedt**, Green, Hasegawa, Leininger, Monteith, Pichs-Madruga Achievements and needs for the climate change scenario framework. *Nature Climate Change*, 10, 1074–1084 (2020). <https://doi.org/10.1038/s41558-020-00952-0>

Smith, C.J., PM. Forster, M Allen, J **Fuglestedt**, RJ. Millar, J Rogelj & K Zickfeld: Current fossil fuel infrastructure does not yet commit us to 1.5 °C warming. *Nature Communications*, vol 10, Article number: 101 (2019)

**Fuglestedt J**, Rogelj J, Millar RJ, Allen M, Boucher O, Cain M, Forster PM, Kriegler E, Shindell D. 2018 Implications of possible interpretations of 'greenhouse gas balance' in the Paris Agreement. *Phil. Trans. R. Soc. A* 376: 20160445. <http://dx.doi.org/10.1098/rsta.2016.0445>

Lee, D. S., Fahey, D. W., Skowron, A., Allen, M. R., Burkhardt, U., Chen, Q., Doherty, S. J., Freeman, S., Forster, P. M., **Fuglestedt**, J., Gettelman, A., De Leon, R. R., Lim, L. L., Lund, M. T., Millar, R. J., Owen, B., Penner, J. E., Pitari, G., Prather, M. J., Sausen, R., Wilcox, L. J. (2021). The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018. *Atmospheric Environment*, 244, 117834. <https://www.sciencedirect.com/science/article/pii/S1352231020305689>

Millar, R. J., **Fuglestedt**, J. S., Friedlingstein, P., Rogelj, J., Grubb, M. J., Matthews, H. D., et al. (2017). Emission budgets and pathways consistent with limiting warming to 1.5 °C. *Nature Geoscience* 10, 741–747. doi:10.1038/ngeo3031.

**Fuglestedt**, J.S., K.P. Shine, T. Berntsen, J. Cook, D.S. Lee, A. Stenke, R.B. Skeie, G.J.M. Velders, I.A. Waitz, Transport impacts on atmosphere and climate: Metrics, *Atmospheric Environment*, Volume 44, Issue 37, 2010, Pages 4648-4677, ISSN 1352-2310, <https://doi.org/10.1016/j.atmosenv.2009.04.044>