Curriculum Vitae
David Collste (PhD)

Postdoctoral researcher, Stockholm Resilience Centre, Stockholm University
Google Scholar

Contact

Date of birth: 1988-04-14
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Nationality: Swedish
Web: https://www.stockholmresilience.org/meet-our-team/staff/2016-05-10-collste.html

Degrees

2021 **PhD in Sustainability Science, Stockholm Resilience Centre, Stockholm University**
Received European Union Horizon 2020 Marie Curie PhD fellowship 2016-2019.

2021 **PhD in Economics, CERDI at Université Clermont Auvergne**
Received Marie Curie PhD fellowship 2016-2019 (see above).

2019 **Licentiate Degree in Sustainability Science: Stockholm Resilience Centre, Stockholm University**

2015 **European Master in System Dynamics, Erasmus Mundus: University of Bergen, New University of Lisbon, Radboud University Nijmegen**
Joint Degree European Master in System Dynamics (120 ECTS) from Bergen and Lisbon (MPhil), and a Single Degree Master of Science in Business Administration (MSc) from Radboud University Nijmegen (60 ECTS). Received European Commission grant of EUR 23 000.

2015 **Master of Science (MSc), Political Science and Government, Uppsala University**

Teaching

2020- 2021 Deputy course coordinator (2021) and lecturer (2020-2021), BSc course *Ecological Economics*, Department of Physical Geography, Stockholm University

2016 - 2021 Lecturer system dynamics, MSc course *Systems theory and Resilience Thinking*, Stockholm Resilience Centre, Stockholm University

2018-2019 Lecturer, BSc course *Microeconomics*, ESC Clermont Business School, Clermont-Ferrand

Supervision

2021- Josefa Voigt (MSc, co-supervisor)

2020 Sofia Cortes-Calderon (MSc, co-supervisor)

2020 Ashleen Tan Su Ying (MSc, co-supervisor)

Relevant Professional Experience

2020- **National Coordinator for the 2030 Agenda in Sweden**
Working part-time in support for the office of the National Coordinator.

2016 – 2019 **Swedish Resilience and Development Programme (SwedBio)**
Programme officer for collaborative programme on the African Dialogues on the World In 2050 (TWI2050).

2015 – 2016 **Swedish Society for Nature Conservation (SSNC)**
Product manager for insurances and finance for the Eco-label Green Environmental.

2015 – 2015 **Millennium Institute, Washington D.C. Internship.**

2013 –2013 **European Union Delegation to the United Nations, New York. Advisor.**

2012 – 2013 **Sida, the Swedish International Development Cooperation Agency. Internship.**

Commissions of trust

2019 -2022 **Stockholm Business Region AB**
Substitute in the board for Stockholm Business Region AB.

2013 – 2015 **United Nations Major Group for Children and Youth – UN MGCY**
Global Focal Point for the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns (10YFP) for the UN Major Group for Children and Youth.

2013 – 2013 **Swedish Youth Delegate to the United Nations' High Level Political Forum on Sustainable Development (HLPF)**
Official Swedish youth delegate to the United Nations, representing the National Council of Swedish Youth Organizations.

2012 **The National Council for Swedish Youth Organizations**
Workshop leader on gender in Lebanon, October 2012, and on organizational development and democratic governance in Cambodia, December 2012.

2009 –2010 **Operation Dagsverke (Operation Day's Work)**
Secretary and representative in the board for the foreign aid campaign.

2005 - 2013 **CISV – Building Global Friendship**
Global organization for peace education. Member of the Mosaic-Committee (2011-2012) and trainer. Participated in many international projects as participant and leader including a project working with Native Americans with Denver Indian Center (Colorado) in USA 2010.

Selected publications

Peer reviewed publications

Collste, D., Cornell, S. E., Randers, J., Rockström, J., & Stoknes, P. E. (2021). Human well-being in the Anthropocene: Limits to growth. *Global Sustainability*, 1–17. https://doi.org/10.1017/sus.2021.26

Collste, D. (2021). Chapter 8: Modeling Korpi and Palme's 'Paradox of Redistribution and Strategies of Equality'. In R. Y. Cavana, B. C. Dangerfield, O. V. Pavlov, M. J. Radzicki, & I. D. Wheat (Eds.), *Feedback Economics: Economic Modeling with System Dynamics* (Vol. 2021). Springer. https://www.springer.com/gp/book/9783030671891#aboutBook

Engström, R. E., **Collste, D.**, Cornell, S. E., Johnson, F. X., Carlsen, H., Jaramillo, F., Finnveden, G., Destouni, G., Howells, M., Weitz, N., Palm, V., & Fuso-Nerini, F. (2021). Succeeding at home and abroad: Accounting for the international spillovers of cities' SDG actions. *Npj Urban Sustainability*, *1*(1), 18. https://doi.org/10.1038/s42949-020-00002-w

Aguiar, A. P. D., **Collste, D.**, Harmáčková, Z. V., Pereira, L., Selomane, O., Galafassi, D., Van Vuuren, D., & Van Der Leeuw, S. (2020). Co-designing global target-seeking scenarios: A cross-scale participatory process for capturing multiple perspectives on pathways to sustainability. *Global Environmental Change*, *65*, 102198. https://doi.org/10.1016/j.gloenvcha.2020.102198

Collste, D. (2020). New Economic Paradigms. In *Encyclopedia of the World's Biomes* (pp. 296–302). Elsevier. https://doi.org/10.1016/B978-0-12-409548-9.12446-7

Diemer, A., **Collste, D.**, & Spittler, N. (2020). Systemic Issues and Multi-Stakeholders Partnerships for Achieving Sustainable Development Goals. In W. Leal Filho, A. M. Azul, L. Brandli, A. Lange Salvia, & T. Wall (Eds.), *Encyclopedia of the UN Sustainable Development Goals* (pp. 1–14). Springer International Publishing. https://doi.org/10.1007/978-3-319-71067-9_72-1

Pedercini, M., Arquitt, S., **Collste, D.**, & Herren, H. (2020). Harvesting synergy from sustainable development goal interactions. *Proceedings of the National Academy of Sciences*, *116*(46), 23021–23028. https://doi.org/10.1073/pnas.1817276116

Schneider, A., Hinton, J., **Collste, D.**, González, T. S., Cortes-Calderon, S. V., & Aguiar, A. P. D. (2020). Can transnational corporations leverage systemic change towards a 'sustainable' future? *Nature Ecology & Evolution*, *4*(4), 491–492. https://doi.org/10.1038/s41559-020-1143-4

Downing, A. S., Bhowmik, A., **Collste, D.**, Cornell, S., Donges, J. F., Fetzer, I., Häyhä, T., Hinton, J., Lade, S. J., & Mooij, W. (2019). Matching scope, purpose and uses of planetary boundaries science. *Environmental Research Letters*. https://doi.org/10.1088/1748-9326/ab22c9

Randers, J., Rockström, J., Stoknes, P.-E., Goluke, U., **Collste, D.**, Cornell, S. E., & Donges, J. (2019). Achieving the 17 Sustainable Development Goals within 9 planetary boundaries. *Global Sustainability*, *2*, e24. https://doi.org/10.1017/sus.2019.22

Collste, D., Pedercini, M., & Cornell, S. E. (2017). Policy coherence to achieve the SDGs: Using integrated simulation models to assess effective policies. *Sustainability Science*, *12*(6), 921–931. https://doi.org/10.1007/s11625-017-0457-x

Hultkrantz, L., **Collste, D.**, Gren, I.-M., Gustafsson, S., Gylfason, T., Karlsson, C., Kruse, A., Lindén, J., Lundholm, M., Lundmark, R., Lundquist, T., Nystedt, P., Olme, E., Pedersen, P., Schultz, C., Thoursie, A., & Veiderpass, A. (2012). Utvärdering av högskoleutbildningarna i nationalekonomi. *Ekonomisk Debatt*.

Other publications

TWI2050 - The World in 2050. (2020). *Innovations for Sustainability: Pathways to an efficient and sufficient post-pandemic future*. IIASA. 10.22022/TNT/07-2020.16533

TWI2050 - The World in 2050. (2019). *The Digital Revolution and Sustainable Development: Opportunities and Challenges. Report prepared by the World in 2050 initiative*. IIASA. http://dx.doi.org/10.22022/TNT/05-2019.15913

Collste, D., Aguiar, A. P. D., Galafassi, D., Harmáčková, Z., Pereira, L., Selomane, O., & Van Der Leeuw, S. (2019). *Three Horizons for the Sustainable Development Goals: A Cross-scale Participatory Approach for Sustainability Transformations* [Preprint SocArxiv]. SocArXiv. https://doi.org/10.31235/osf.io/uhskb

Aguiar, A. P., **Collste, D.**, Galafassi, D., Harmáčková, Z., Houngbedji, K., Mesfin, M., Ndahiro, D., Pereira, L., Selomane, O., & van der Leeuw, S. (2019). *The Second African Dialogue on the World In 2050—How to attain the SDGs within planetary boundaries: Agriculture and food systems. Report on a Multi-Actor Dialogue for TWI2050, 30—31 October 2018, Kigali, Rwanda*. Sustainable Development Goals Center for Africa and SwedBio/Stockholm Resilience Centre at Stockholm University. https://swed.bio/wp-content/uploads/2019/02/7017-0034-2nd-TWI2050-dialouge_report_WEB.pdf

Collste, D., Randers, J., Goluke, U., Stoknes, P. E., Cornell, S., & Rockström, J. (2018). *The Empirical Bases for the Earth3 Model: Technical Notes on the Sustainable Development Goals and Planetary Boundaries* [Preprint]. EarthArXiv. https://doi.org/10.31223/osf.io/ephsf

Goluke, U., Randers, J., **Collste, D.**, & Stoknes, P. E. (2018). *The Earth3 model system*. https://osf.io/a8mvf/

Karangwa, C., Mesfin, M., Dubois, T., Henao, L., Mutune, J., Ndahiro, D., Sempeho, G., **Collste, D.**, Cornell, S. E., & Mellegård, V. (2018). *The African Dialogue on The World In 2050: How can agriculture contribute to meeting the SDGs?* https://swed.bio/reports/report/dialogue-workshop-report-african-dialogue-twi2050/

Randers, J., Rockström, J., Stoknes, P. E., Golüke, U., **Collste, D.**, & Cornell, S. E. (2018). *Transformation is feasible: How to achieve the Sustainable Development Goals within Planetary Boundaries. A report to the Club of Rome, for its 50 years anniversary 17 October 2018*. Stockholm Resilience Centre. https://www.stockholmresilience.org/publications/artiklar/2018-10-17-transformation-is-feasible---how-to-achieve-the-sustainable--development-goals-within-planetary-boundaries.html

TWI2050 - The World in 2050. (2018). *Transformations to Achieve the Sustainable Development Goals. Report prepared by The World in 2050 initiative*. IIASA. https://doi.org/10.22022/TNT/07-2018.15347

Meehan, C., Bennich, T., & **Collste, D.** (2017). Progress in Education for Sustainable Development: Improving Learning Using System Dynamics. In A. Diemer (Ed.), *European Union and Sustainable Development: Challenges and Prospects*.

Axelson, A., **Collste, D.**, Junker, S., & König, J. (2015). *Bankernas svarta samvete – en kartläggning av svenska bankers investeringar i kol, olja och gas* (ISBN: 978-91-558-0175-5). Naturskyddsföreningen.

Collste, D. (2015). Master's Thesis—*Modeling the Impact of Solar Energy on Health and Education: A System Dynamics Approach to the United Nations Sustainable Development Goals*. University of Bergen

Awards

2017 System Dynamics Application Award, 2017, jointly received for *Threshold 21 Model for Long-Term National Development* Planning, https://www.systemdynamics.org/award-recipients

Barry Richmond Scholarship award 2017 as co-author of *Progress in Education for Sustainable Development: Improving Learning Using System Dynamics* https://www.iseesystems.com/scholarship.aspx

2016 Best Paper Award Winner at the International Conference on Sustainable Development for my paper titled *Policy Coherence to Achieve the SDGs*, http://ic-sd.org/2016/09/23/best-paper-award-winners-announced/

2015 Best Poster Award for the Economics, Security and Operations Poster Session at the System Dynamics Conference at MIT, Boston 2015, https://www.systemdynamics.org/assets/newsletters/2015-23oct/conf.html

Barry Richmond Scholarship Award 2015 as co-author of paper titled *Exploring Degrowth Pathways Using System Dynamics*, https://www.iseesystems.com/scholarship.aspx

Others

Member of the Balaton Group - a global network for collaboration on systems thinking and sustainability.

Conferences and presentations:

2020 Presented research at the International SDG Research Symposium GlobalGoals2020 (virtual). https://globalgoalsproject.eu/globalgoals2020/

Presented research at the African Commons Web Conference 2020 (IASC). Presentation available at: https://africa.iasc-commons.org/video_presentation/three-horizons-for-the-sdgs-a-cross-scale-participatory-approach-for-transformative-pathways-en/

Schumacher Lecture, coordinated by the Schumacher Institute. Available online: https://youtu.be/AXS7WOzhyyk

2019 The Royal Swedish Academy of Agriculture and Forestry (KSLA): presentation on the 2030 Agenda.

UN PRME presentation on Systems Thinking and the SDGs

Political Studies Association Annual International Conference, the UK: Presented research in panel.

Presentation for the UN Association of Sweden

2017 Panel presentation 8th European System Dynamics Workshop, Portugal

2016 International Conference on Sustainable Development, Colombia University: Presented research in panel.

2015 Represented the UN Major Group for Children and Youth many of the negotiations on the 2030 Agenda, 2013-2015.

2014 UN Environment Assembly in Nairobi

UNESCO World Conference on Education for Sustainable Development in Nagoya

UN Conference on Youth in Colombo

Languages:
Fluent in Swedish and English (113 out of 120 in Toefl iBT). Basic knowledge of French, Malay, Indonesian, Spanish and Portuguese.

Software:
MS Office, STELLA, Vensim, SPSS, STATA, Netlogo, Anylogic, Wordpress.