

# Curriculum Vitae

## David Collste (PhD)

Postdoctoral researcher, Stockholm Resilience Centre, Stockholm University

### Contact

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

### Degrees

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- 2021 **PhD in Sustainability Science, Stockholm Resilience Centre, Stockholm University**  
European Union Horizon 2020 Marie Curie PhD fellowship 2016-2019.
- 2021 **PhD in Economics, CERDI at Université Clermont Auvergne**  
European Union Horizon 2020 Marie Curie PhD fellowship 2016-2019.
- 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

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- 2020- 2021 Course coordinator (2022-) and lecturer (2020-), undergraduate course *Ecological Economics*, Department of Physical Geography, Stockholm University
- 2016 - 2021 Module leader *Systems thinking* (2022-) and lecturer (2016-), graduate course *Systems theory and Resilience Thinking*, Stockholm Resilience Centre, Stockholm University
- 2018-2019 Lecturer, undergraduate course *Microeconomics*, ESC Clermont Business School, Clermont-Ferrand

### Supervision

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- 2022 Josefa Voigt (MSc, co-supervisor)
- 2020 Sofia Cortes-Calderon (MSc, co-supervisor)
- 2020 Ashleen Tan Su Ying (MSc, co-supervisor)

### Relevant Professional Experience

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- 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

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- 2019 -2022 **Stockholm Business Region AB**  
Board member.
- 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 **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

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### 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](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**

Galaz, V. and D. Collste (eds, 2022). *Economy and Finance for a Just Future on a Thriving Planet. Report for Stockholm+50*. Beijer Institute of Ecological Economics (Royal Swedish Academy of Sciences) and the Stockholm Resilience Centre (Stockholm University). <https://doi.org/10.17045/sthlmuni.19792957>

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](https://doi.org/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., Hounbedji, 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-dialogue\\_report\\_WEB.pdf](https://swed.bio/wp-content/uploads/2019/02/7017-0034-2nd-TWI2050-dialogue_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., Goluke, 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*.

Axelsson, 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

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

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Member of the Balaton Group - a global network for collaboration on systems thinking and sustainability.  
<http://www.balatongroup.org/>

### Conferences and presentations:

- 2021 Presented research at the SDG Conference Bergen (virtual)  
<https://www.uib.no/en/sdgconference/138845/day-zero-wednesday-10-february>
- 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/](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. Basic knowledge of French, Malay, Indonesian, Spanish and Portuguese.