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## Forskning

Dr Jagdeep Singh is a Researcher in Environmental Science at the Centre for Environmental and Climate Research (CEC). His research focuses on investigating challenges and opportunities associated with deriving biomass from agricultural land in Sweden for bioenergy purposes and mitigating climate change. The research addresses various conflicts and synergies between fulfilling societal demands for bioenergy and food while ensuring sustainable production and conservation of fertile soils and biodiversity. The research employs a variety of research methods for data collection and analysis, such as participatory backcasting, group model building (causal loop diagrams), and stakeholder interviews and workshops.

## Kvalifikationer

Industrial Ecology, PhD, KTH Royal Institute of Technology  
2010 aug. 18 → 2016 juni 9  
Tilldelningsdatum: 2016 juni 9

Industrial Ecology, Licentiate of Technology, KTH Royal Institute of Technology  
2010 aug. 18 → 2014 mars 10  
Tilldelningsdatum: 2014 mars 10

Energy Studies, M. Tech., Indian Institute of Technology  
2007 aug. 23 → 2009 juni 15  
Tilldelningsdatum: 2009 juni 15

Electrical Engineering, Bachelor of Technology, Himachal Pradesh University  
2002 aug. 18 → 2006 juni 15  
Tilldelningsdatum: 2006 juni 15

## Anställning

### Forskare

Centrum för miljö- och klimatvetenskap (CEC)  
Lunds universitet  
Lund, Sverige  
2020 juni 11 → present

### Forskare

BECC: Biodiversity and Ecosystem services in a Changing Climate  
Lunds universitet

Lund, Sverige  
2020 juni 20 → present

### **Research Fellow in Sustainable Business**

Nottingham Trent University  
Clifton, Nottingham, Storbritannien  
2016 okt. 1 → 2018 jan. 10

### **Postdoctoral Researcher**

KTH Royal Institute of Technology  
Stockholm SE-100 44, Sverige  
2016 juni 1 → 2016 sep. 30

### **Teaching Assistant / Doctoral Candidate**

KTH Royal Institute of Technology  
Stockholm SE-100 44, Sverige  
2010 aug. 18 → 2016 juli 30

### **Assistant Professor**

Lovely Professional University  
Phagwara , Indien  
2009 juli 1 → 2010 maj 30

## **Forskningsoutput**

### **The Sustainability Potential of Upcycling**

Singh, J., 2022, I: Sustainability (Switzerland). 14, 10, 5989.

### **Introduction: State-of-the-Art Upcycling Research and Practice**

Sung, K., Singh, J., Bridgens, B. & Cooper, T., 2021 juni 15, *State-of-the-Art Upcycling Research and Practice: Lecture Notes in Production Engineering*. Sung, K., Singh, J. & Bridgens, B. (red.). Springer International Publishing, s. 1-6 (LectureNotes in Production Engineering (LNPE)).

### **Systems Approach to Scaling-Up Global Upcycling: Framework for Empirical Research**

Singh, J. & Sung, K., 2021 juni 15, *State-of-the-Art Upcycling Research and Practice: Lecture Notes in Production Engineering*. Sung, K., Singh, J. & Bridgens, B. (red.). Springer International Publishing, s. 99-104

### **Upcycling, Jugaad and Repair Cafes for Prosumption**

Singh, J. & Arora, C., 2021 juni 15, *State-of-the-Art Upcycling Research and Practice: Lecture Notes in Production Engineering*. Sung, K., Singh, J. & Bridgens, B. (red.). Springer International Publishing, s. 41-43 (LectureNotes in Production Engineering (LNPE)).

### **State-of-the-Art Upcycling Research and Practice: Proceedings of the International Upcycling Symposium 2020**

Sung, K. (red.), Singh, J. (red.) & Bridgens, B. (red.), 2021, Springer Nature. 139 s. (Lecture Notes in Production Engineering)

### **Reflecting on critical awareness and integration of knowledge in interdisciplinary education: exploring the potential of learning portfolios**

Richter, J. L. & Singh, J., 2020 dec., *Interdisciplinary pedagogy in higher education: Proceedings from Lund University's Teaching and Learning Conference 2019*. Bergvist Rydén, J., Jerneck, A., Richter, J. L. & Karin, S. (red.). Lund: Lund University, s. 85-95

### **Systematic Framework to Assess Social Impacts of Sharing Platforms**

Curtis, S., Singh, J., Mont, O. & Kessler, A., 2020 sep. 8, I: PLoS ONE. 15, 10, e0240373.

### **Multi-Stakeholder Perspectives on Scaling up UK Fashion Upcycling Businesses**

Sung, K., Cooper, T., Oehlmann, J., Singh, J. & Mont, O., 2020, I: *Fashion Practice*. 12, 3, s. 331-350 20 s.

### **Urban Sharing in Toronto**

Mont, O., Plepys, A., Voytenko Palgan, Y., Singh, J., Lehner, M., Curtis, S., Zvolaska, L. & Arbelaez Velez, A. M., 2020, 75 s.

### **Urban Sharing in Amsterdam**

Mont, O., Plepys, A., Voytenko Palgan, Y., Singh, J., Curtis, S., Zvolaska, L. & Arbelaez Velez, A. M., 2019 okt. 10, Lund: Lund University (Media-Tryck). 69 s.

### **Mobile Lab on Sharing in Malmö**

Voytenko Palgan, Y., McCormick, K., Leire, C. & Singh, J., 2019 aug., The International Institute for Industrial Environmental Economics. 28 s.

### **An intelligent model for residual life prediction of thyristor**

Bhargava, C., Singh, J. & Sharma, P. K., 2019 juni 1, I: *International Journal of Engineering and Advanced Technology*. 8, 5, s. 1862-1866 5 s.

### **An assessment of achievements of the WEEE Directive in promoting movement up the waste hierarchy: experiences in the UK**

Cole, C., Gnanapragasam, A., Cooper, T. & Singh, J., 2019, I: *Waste Management: international journal of integrated waste management, science and technology* . 87, s. 417-427 11 s.

### **Assessing barriers to reuse of electrical and electronic equipment, a UK perspective**

Cole, C., Gnanapragasam, A., Cooper, T. & Singh, J., 2019, I: *Resources, Conservation and Recycling*: X. 1, 100004.

### **Challenges and opportunities for scaling up upcycling businesses – The case of textile and wood upcycling businesses in the UK**

Singh, J., Sung, K., Cooper, T., West, K. & Mont, O., 2019, I: *Resources, Conservation and Recycling*. 150, 104439.

### **Challenges and research needs when evaluating sustainability impacts of alternative consumption models**

Plepys, A. & Singh, J., 2019, *A Research Agenda for Sustainable Consumption Governance*. Mont, O. (red.). Edward Elgar Publishing, s. 66-84 19 s.

### **Characterizing the sharing economy state of the research: A systematic map**

Laurenti, R., Singh, J., Cotrim, J. M., Toni, M. & Sinha, R., 2019, I: *Sustainability (Switzerland)*. 11, 20, 5729.

### **Evaluating approaches to resource management in consumer product sectors - An overview of global practices**

Singh, J., Cooper, T., Cole, C., Gnanapragasam, A. & Shapley, M., 2019, I: *Journal of Cleaner Production*. 224, s. 218-237 20 s.

### **Exploring social, economic and environmental consequences of collaborative production: The case of bike repair maker spaces in three European countries**

Singh, J., Mont, O., Winslow, J., Lehner, M. & Voytenko Palgan, Y., 2019. 6 s.

### **Scaling up British fashion upcycling businesses: Multistakeholder perspectives**

Sung, K., Cooper, T., Oehlmann, J., Singh, J. & Mont, O., 2019, (Accepted/In press) I: *Fashion Practice: The Journal of Design, Creative Process & the Fashion Industry* .

### **The Socio-Economic Embeddedness of the Circular Economy: An Integrative Framework**

Laurenti, R., Singh, J., Frostell, B., Sinha, R. & Binder, C., 2018 juni 22, I: *Sustainability*. 10, 7, 2129.

### **Consumer Perspectives on longevity and Reliability: A National Study of Purchasing Factors Across Eighteen Product Categories**

Gnanapragasam, A., Cole, C., Singh, J. & Cooper, T., 2018 jan. 1, *The 25th CIRP Conference on Life Cycle Engineering*. Vol. 69. s. 910-915 6 s. (Procedia CIRP).

### **Enhancing Reuse and Resource Recovery of Electrical and Electronic Equipment with Reverse Logistics to Meet Carbon Reduction Targets**

Cole, C., Gnanapragasam, A., Singh, J. & Cooper, T., 2018 jan. 1, *The 25th CIRP Conference on Life Cycle Engineering*. Vol. 69. s. 980-985 6 s. (Procedia CIRP).

### **Sustainability assessment of the sharing economy: An overview of various modelling approaches**

Singh, J., Plepys, A. & Mont, O., 2018.

### **Towards a Sustainable Business Model for Plastic Shopping Bag Management in Sweden**

Singh, J. & Cooper, T., 2017 jan. 1, *The 24th CIRP Conference on Life Cycle Engineering*. Vol. 61. s. 679-684 6 s. (Procedia CIRP).

### **Identifying ways of closing the metal flow loop in the global mobile phone product system: A system dynamics modeling approach**

Sinha, R., Laurenti, R., Singh, J., Malmström, M. E. & Frostell, B., 2016 okt. 1, I: *Resources, Conservation and Recycling*. 113, s. 65-76 12 s.

### **Resource recovery from post-consumer waste: important lessons for the upcoming circular economy**

Singh, J. & Ordoñez, I., 2016 okt. 1, I: *Journal of Cleaner Production*. 134, s. 342-353 12 s.

### **Beyond Waste Management**

Singh, J., 2016 maj 12, 145 s.

### **Unintended Environmental Consequences of Improvement Actions: A Qualitative Analysis of Systems' Structure and Behavior**

Laurenti, R., Singh, J., Sinha, R., Potting, J. & Frostell, B., 2016 maj 1, I: *Systems Research and Behavioral Science*. 33, 3, s. 381-399 19 s.

### **Towards Addressing Unintended Environmental Consequences: A Planning Framework**

Laurenti, R., Sinha, R., Singh, J. & Frostell, B., 2016 jan. 1, I: *Sustainable Development*. 24, 1, s. 1-17 17 s.

### **Evaluating low-carbon city initiatives from the DPSIR framework perspective**

Zhou, G., Singh, J., Wu, J., Sinha, R., Laurenti, R. & Frostell, B., 2015 dec. 1, I: *Habitat International*. 50, s. 289-299 11 s.

### **Some pervasive challenges to sustainability by design of electronic products - A conceptual discussion**

Laurenti, R., Sinha, R., Singh, J. & Frostell, B., 2015 jan. 1, I: *Journal of Cleaner Production*. 108, s. 281-288 8 s.

### **Progress and challenges to the global waste management system**

Singh, J., Laurenti, R., Sinha, R. & Frostell, B., 2014 jan. 1, I: *Waste Management and Research*. 32, 9, s. 800-812 13 s.

### **Towards a Sustainable Resource Management: a broader systems approach to product design and waste management**

Singh, J., 2013 dec. 11, Stockholm. 37 s.

## **Priser och utmärkelser**

### **Best Research Proposal Poster Award by Academy for Business in Society (ABIS) Brussels**

Singh, Jagdeep (Mottagare), 2017

**Erasmus Mundus India4EU Doctoral Scholarship**

Singh, Jagdeep (Mottagare), 2010

**ISWA (International Solid Waste Association) Publication Award**

Singh, Jagdeep (Mottagare), 2015

**KTH Sustainability, PhD Dialogue 2013 Proposal Competition**

Singh, Jagdeep (Mottagare), 2013

**KTH Sustainability, PhD Dialogue 2014 Proposal Competition**

Singh, Jagdeep (Mottagare), 2014

**Post Graduate Scholarship, Ministry of Human Resource Development, India**

Singh, Jagdeep (Mottagare), 2007

**The Editors' Choice Article of the Month, Waste Management & Research Journal**

Singh, Jagdeep (Mottagare), 2014

## Projekt

**Miljö och klimateffekter av intensiv- och perioperativ vård**

Boberg, L., Bentzer, P. & Singh, J.

2021/10/01 → ...

**Land4biomass: Production potential of agricultural biomass and policy instruments to promote a fossil-free society while meeting food production and environmental objectives**

Clough, Y., Boyd, E., Brady, M. V., Ekroos, J., Smith, H., Alkan Olsson, J., Hedlund, K., Wilhelmsson, F., Börjesson, P., Eklundh, L., Johansson, E., Winberg, J., Singh, J., Larsson, C. & López I Losada, R.

FORMAS, Forskningsrådet för miljö, areella näringar och samhällsbyggande

2019/01/01 → 2022/12/31

**Urban Reconomy: sharing for circular resource efficiency**

Mont, O. K., Voytenko Palgan, Y., Lehner, M. & Singh, J.

2015/06/01 → 2019/12/31

**Urban Sharing: From excess economy to access economy**

Mont, O. K., Plepys, A., Voytenko Palgan, Y., Lehner, M., Enochsson, L., Curtis, S. & Singh, J.

2016/09/01 → 2018/08/31

**Urban Sharing: Urban Sharing: Sustainability and Institutionalisation Pathways**

Mont, O. K., Voytenko Palgan, Y., Plepys, A., Lehner, M., Singh, J., Curtis, S., Enochsson, L. & Arbelaez Velez, A. M.  
European Commission - Horizon 2020

2018/09/01 → 2023/08/31