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Forskning

Dr. Jagdeep Singh is Associate Professor in Environmental Science at the Centre for Environmental and Climate Research (CEC). In his academic career so far, he has investigated societal sustainability challenges by applying novel approaches, devising innovative assessment frameworks, and adopting methods and tools from other research fields. Specifically, he has advanced the field of sustainable production and consumption in emerging areas such as circular economy, reuse, product repair and upcycling, the sharing economy, and sustainable business innovation. Dr. Singh has conducted inter- and trans-disciplinary research with an impact on academia and society.

Kvalifikationer

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

Industrial Ecology, Licentiate of Technology, Towards a Sustainable Resource Management : a broader systems approach to product design and waste management, KTH Royal Institute of Technology
2010 aug. 18 → 2014 mars 10
Tilldelningsdatum: 2014 mars 10

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

Electrical Engineering, Bachelor of Technology, Speed control of three phase induction motor using fuzzy logic in MATLAB Simulink, 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 role of disciplinary, interdisciplinary, and transdisciplinary education in sustainability science: Experiences from my professional journey

Singh, J., 2024 apr. 19, *Research Journeys to Net Zero: Current and Future Leaders*. Sung, K., Isherwood, P. & Moalosi, R. (red.). Taylor & Francis, s. 23-34 12 s.

Embeddedness

Singh, J., 2023, *Dictionary of Ecological Economics: Terms for the New Millennium*. Edward Elgar Publishing, s. 174-175

Environmental impact of single-use, reusable, and mixed trocar systems used for laparoscopic cholecystectomies

Boberg, L., Singh, J., Montgomery, A. & Bentzer, P., 2022 juli 15, I: *PLoS ONE*. 17, 7, e0271601.

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., Zvolška, L. & Arbelaez Velez, A. M., 2020, 75 s.

Urban Sharing in Amsterdam

Mont, O., Plepys, A., Voytenko Palgan, Y., Singh, J., Curtis, S., Zvolška, 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.

Evaluating the sustainability impacts of the sharing economy using input–output analysis

Plepys, A. & Singh, J., 2019 jan. 1, *A Research Agenda for Sustainable Consumption Governance*. Edward Elgar Publishing, s. 66-84

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

Hemberg, 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 → 2025/10/31

Urban Reconomy: sharing for circular resource efficiency

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

2015/06/01 → 2019/12/31

Urban Sharing: From excess economy to access economy

Mont, O., Plepys, A., Voytenko Palgan, Y., Lehner, M., Enochsson, L., Curtis, S. & Singh, J.
2016/09/01 → 2018/08/31

Urban Sharing: Sustainability and Institutionalisation Pathways

Mont, O., 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