

Curriculum Vitae

Personal information

Name: GOH, Chun Sheng 吴浚生

Nationality: Malaysia

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Website: <https://scholar.harvard.edu/csgoh>

Primary languages: English, Bahasa Malaysia, Chinese - Mandarin, Hokkien, Cantonese

Other languages: Bahasa Indonesia (basic), Dutch (limited), Japanese (limited)



Education

1. Ph.D. (2017), Copernicus Institute of Sustainable Development, Utrecht University, the Netherlands

Thesis: 'Monitoring the Bio-economy: Assessing biomass flows, land-use change, carbon impacts and future land resources'

- Visiting researcher (2014-2015) Centre for International Forestry Research (CIFOR), Indonesia

2. M.Sc. (2011) & B.Sc. Chemical Engineering (2009), University of Science Malaysia, Malaysia

- Practicum / Australia Awards Scholar (2011) University of New South Wales, Australia
- Visiting researcher (2010) University Henri Poincare / Université de Lorraine, France

Work

1. Research Fellow, Jeffrey Cheah Institute on Southeast Asia, Sunway University

| July 2020 – ongoing • Greater Kuala Lumpur, Malaysia |

Deputy Director of Graduate Studies, Jeffrey Sachs Center on Sustainable Development, Sunway University

| July 2020 – ongoing • Greater Kuala Lumpur, Malaysia |

- **Graduate studies:** Managing the programme Master in Sustainable Development Management (MSDM). See: <https://jeffreysachs.center/graduate-study>
- **Teaching and facilitating** MSDM's courses:
 - 'Sustainable Agriculture and Food System'
 - 'Governance for Sustainable Development'
- **Research projects:**
 - 'Food, Agriculture, Biodiversity, Land-Use, and Energy' (FABLE) project by the UN Sustainable Development Solutions Network (SDSN): Representing Malaysia in the programme
 - 'SDG4IP' funded by WWF International: Investigating the application of the SDG framework in developmental issues related to indigenous people in Malaysia

2. Associate, Harvard University Asia Center

| July 2020 – ongoing • Cambridge, MA, USA |

Jeffrey Cheah's Postdoctoral Fellow, Harvard University Asia Center

| September 2019 – June 2020 • Cambridge, MA, USA |

- **Book project:** *Transformation of exploitative land-based economy in Borneo*. See presentation: <https://asiacenter.harvard.edu/announcements/transforming-borneo-land-exploitation-sustainable-development>

3. JSPS Postdoctoral Fellow

Host (1): United Nations University - Institute for the Advanced Study of Sustainability (UNU-IAS)

Host (2): Japan's National Institute for the Environmental Studies (NIES)

| September 2017 – August 2019 • Tokyo, Japan |

- **Research:** Investigating sustainable bio- & eco-economy development in East and Southeast Asia, focusing on environmental impacts, socio-economic dynamics, and urban-rural transition
- **Editorial of academic journal** 'Sustainability Science' (IF 4.7, by Springer) and **lead editor of a Special Feature** '*Developing sustainable bio-energy systems in Asia*'
- **Teaching and facilitating** postgraduate courses at UNU:
 - '*Sustainable Bio-production and Ecosystem Management*'
 - '*Transdisciplinary Research*'
 - '*Sustainability Science Research Seminar*'
- **Knowledge dissemination:** Organising workshops for experts and stakeholders from governments, academia, industries, and NGOs to discuss various topics related to sustainability

4. Senior Executive, National Agency of Innovation Malaysia (AIM), Prime Minister's Department

| July 2016 – August 2017 • Kuala Lumpur area, Malaysia |

- **Policy execution:** Designing, and coordinating the National Biomass Strategy (NBS) 2020 to promote income generation from bio-resources and waste streams
- **Liaison:** Liaising government activities across sectors from the Federal to the State level and managing trade & investment relations with foreign governments

5. Researcher, Copernicus Institute of Sustainable Development, Utrecht University

| August 2011 – June 2016 • Utrecht, The Netherlands |

- **Key projects:**
 - '*Large-scale Investments in Food, Fibre, and Energy: Options for the Poor*' (2013-2016): Investigating environmental impacts associated with international trade of agricultural products. Funded by Department for International Development of United Kingdoms (DfID)
 - '*Monitoring bio-based economy in the Netherlands*' (2011-2016): Developing a monitoring framework for the Netherlands Enterprise Agency (RVO), Ministry of Economic Affairs

6. Task Manager, International Energy Agency (IEA) Bioenergy Task 40

| August 2011 – July 2016 • Utrecht, The Netherlands |

- Coordinating Task 40 '*Sustainable biomass markets and international bioenergy trade*'
- **Dissemination:** Managing website, and composing newsletters
- **Events management:** Organising international business meetings, workshops, and conferences with multiple stakeholders in various locations with local partners across the world
- **Report editing:** Edit a range of research reports as well as a hardcover book published by Springer

Publications

Statistics on Scopus (as of 2020-9-22)

- Publications: 30
- Citations: 850
- H-Index: 12

List of refereed journal papers (sort by year)

1. Goh CS, Saito O, Yamagata Y (2020) Developing sustainable bioenergy systems with local bio-resources: cases in Asia. *Sustainability Science* 15:1449–1453.
2. Goh CS, Ahl A, Woo WT (2020) Sustainable Transformation of Land-Based Economic Development in the Era of Digital Revolution. *Trends in Biotechnology* 17:192-200.
3. Goh CS (2020) Transforming exploitative land-based economy: The case of Borneo. *Environmental Development* 33:100487.
4. Goh CS, Aikawa T, (...) Yamagata Y, Osamu S (2020) Rethinking sustainable rural development with bioenergy in Japan: Decentralised systems supported by local forestry biomass. *Sustainability Science*. 15: 1461–1471.
5. Goh CS, Junginger M, Koppejan J, Goh CS (2019) Sustainable bioenergy deployment in East and South East Asia: notes on recent trends. *Sustainability Science*. 15: 1455-1459.
6. Jaung W, Wiraguna E, Okarda B, Artati Y, Goh CS, Syahru R, Leksono B, Prasetyo LB, Lee SM, Baral H (2018) Spatial assessment of degraded lands for biofuel production in Indonesia. *Sustainability* 10(12):4595.
7. Goh CS, Junginger M, Potter L, Faaij A, Wicke B (2018) Identifying opportunities and barriers to mobilising under-utilised low carbon land resources: A case study on Kalimantan. *Land Use Policy* 70:198-211.
8. Goh CS, Wicke B, Potter L, Faaij APC, Zoomers A, Junginger M (2017) Exploring under-utilised low carbon land resources from multiple perspectives: Case studies on regencies in Kalimantan. *Land Use Policy* 60:150-168.
9. Goh CS, Wicke B, Verstegen J, Faaij A, Junginger M (2016) Linking carbon stock change from land-use change to consumption of agricultural products: A review with Indonesian palm oil as a case study. *Journal of Environmental Management* 184:340-352.
10. Goh CS, Wicke B, Faaij A, Bird DN, Schwaiger H, Junginger M (2016) Linking carbon stock change from land-use change to consumption of agricultural products: Alternative perspectives. *Journal of Environmental Management* 182:542-556.
11. Goh CS (2016) Can We Get Rid of Palm Oil? *Trends in Biotechnology* 34(12):948-950.
12. Stupak I, Joudrey J, Smith CT, Pelkmans L, Chum H, Cowie A, Englund O, Goh CS, Junginger M (2016) A global survey of stakeholder views and experiences for systems needed to effectively and efficiently govern sustainability of bioenergy. *Wiley Interdisciplinary Reviews: Energy and Environment* 5(1):89-118.
13. Matzenberger J, Kranzl L, Tromborg E, Junginger M, Daioglou V, Goh CS, Keramidas K (2015) Future perspectives of international bioenergy trade. *Renewable Sustainable Energy Reviews* 43:926-941
14. Goh CS, Junginger M, Faaij A (2014) Monitoring sustainable biomass flows: General methodology development. *Biofuels, Bioproducts and Biorefining* 8(1):83-102.
15. Goh CS, Junginger M, Cocchi M, Marchal D, Thrän D, Hennig C et al. (2013) Wood pellet market and trade: a global perspective. *Biofuels, Bioproducts and Biorefining* 7(1):24-42.
16. Goh CS, Tan HT, Lee KT (2012) Pretreatment of oil palm frond using hot compressed water: An evaluation of compositional changes and pulp digestibility using severity factors. *Bioresource technology* 110:662-669.
17. Goh CS, Tan HT, Lee KT, Brosse N (2011) Evaluation and optimization of organosolv pretreatment using combined severity factors and response surface methodology. *Biomass Bioenergy* 35(9):4025-4033.
18. Goh CS, Lee KT (2011) Second-generation biofuel (SGB) in Southeast Asia via lignocellulosic biorefinery: Penny-foolish but pound-wise. *Renewable Sustainable Energy Reviews* 15(6):2714-2718.
19. Goh CS, Lee KT (2010) Will biofuel projects in Southeast Asia become white elephants? *Energy Policy* 38(8):3847-3848.
20. Goh CS, Tan KT, Lee KT, Bhatia S (2010) Bio-ethanol from lignocellulose: status, perspectives and challenges in Malaysia. *Bioresource Technology* 101(13):4834-4841.
21. Goh CS, Lee KT (2010) A visionary and conceptual macroalgae-based third-generation bioethanol (TGB) biorefinery in Sabah, Malaysia as an underlay for renewable and sustainable development. *Renewable and Sustainable Energy Reviews* 14(2):842-848.
22. Goh CS, Lee KT (2010) Palm-based biofuel refinery (PBR) to substitute petroleum refinery: an energy and emergy assessment. *Renewable and Sustainable Energy Reviews* 14(9):2986-2995.

23. Goh CS, Lee KT, Bhatia S (2010) Hot compressed water pretreatment of oil palm fronds to enhance glucose recovery for production of second generation bio-ethanol. *Bioresource technology* 101(19):7362-7367.
24. Goh CS, Tan HT, Lee KT, Mohamed AR (2010) Optimizing ethanolic hot compressed water (EHCW) cooking as a pretreatment to glucose recovery for the production of fuel ethanol from oil palm frond (OPF). *Fuel Processing Technology* 91(9):1146-1151.
25. Hameed BH, Goh CS, Chin LH (2009) Process optimization for methyl ester production from waste cooking oil using activated carbon supported potassium fluoride. *Fuel Processing Technology* 90(12):1532-1537.

Book Editorial

1. Junginger M, Goh CS, Faaij A (Eds.) (2014) *International bioenergy trade. History, status & outlook on securing sustainable bioenergy supply, demand and markets.* Springer, Dordrecht.

Book Chapters (authorship)

1. Goh CS, Lee JSH (2021) Transforming Exploitative Land-Based Economy to Reduce Terrestrial Carbon Stock Loss: The Case of Kalimantan. In: Djalante R, Jupesta J, Aldrian, E (Eds.) *Climate Change Research, Policy and Actions in Indonesia.* Springer, Tokyo. In press.
2. Faaij A, Goh CS, Junginger M (2014) A general introduction to international bioenergy trade. In: Junginger M, Goh CS, APC Faaij (Eds.) *International bioenergy trade.* Springer, Dordrecht. Pp. 1-15.
3. Pelkmans L, Goovaerts L, Goh CS, Junginger M, van Dam J, Stupak I et al. (2014) The role of sustainability requirements in international bioenergy markets. In: Junginger M, Goh CS, Faaij APC (Eds.) *International bioenergy trade.* Springer, Dordrecht. Pp. 125-149.
4. Junginger M, Goh CS, Faaij A (2014) Synthesis and Recommendations. In: Junginger M, Goh CS, Faaij APC (Eds.) *International bioenergy trade.* Springer, Dordrecht. Pp. 213-224.