

Brief Curriculum Vitae



Personal information

- Name: **GOH Chun Sheng** 吴浚生
- Nationality: Malaysia
- Current position: Postdoctoral Fellow, Harvard University Asia Center
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- E-mail: chunshenggoh@fas.harvard.edu; gohchunsheng@hotmail.com

Languages

- Professional: English, Chinese (Mandarin, Cantonese and Minnanese), Bahasa Malaysia,
- Basic: Bahasa Indonesia, Dutch (very basic), Japanese (very basic)

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'*

2. M.Sc. (2011) & B.Sc. Chemical Engineering (2009)

University of Science Malaysia

Employment Record

1. Postdoctoral Fellow

Harvard University Asia Center

September 2019 – present • Cambridge, Massachusetts

Research: Investigating the crafting and application of knowledge in achieving SDGs in East and Southeast Asia, with a special focus on Malaysia and Indonesia

2. JSPS Postdoctoral Fellow

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

Host (2): National Institute for Environmental Studies (NIES)

September 2017 – August 2019 • Tokyo, Japan

- **Teaching** postgraduate courses at UNU: (i) *'Sustainable Bio-production and Ecosystem Management'* and (ii) *'Transdisciplinary Research'*, while managing the course (iii) *'Sustainability Science Research Seminar'* and occasionally giving (iv) guest lectures/talks at various institutions.
- **Supporting the editorial of academic journal** *'Sustainability Science'* (IF 4.7, by Springer) and **lead editor of the Special Feature** *'Developing sustainable bio-energy systems in Asia'*
- **Research:** Investigating sustainable bio- & eco-economy development in East and Southeast Asia, focusing on environmental impacts, socio-economic dynamics and urban-rural transition.
- **Knowledge exchange** through organising workshops for experts and stakeholders from governments, academia, industries and NGOs to discuss various topics related to sustainability.

3. Government Officer

National Agency of Innovation Malaysia (AIM), Prime Minister's Department

July 2016 – August 2017 • Kuala Lumpur area, Malaysia

- **Policy executing, designing and coordinating** the National Biomass Strategy (NBS) 2020 to promote income generation from bio-resources and waste streams.
- **Liaising government activities** across sectors from Federal to State level, as well as trade and investment relations with foreign governments (especially The Netherlands, Japan, Sweden, Denmark, South Korea).

4. 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.

5. Visiting researcher

Centre of International Forestry Research (CIFOR)

November 2014 – February 2015 • Bogor, Indonesia

6. Task Manager

International Energy Agency (IEA) Bioenergy

Task 40: Sustainable biomass markets and international bioenergy trade

August 2011 – July 2016 • Utrecht, The Netherlands

- **Coordinating and managing** dissemination activities, e.g. editing reports, managing website and composing newsletters.
- **Organising** international business meetings, workshops and conferences with multiple stakeholders in various locations with local partners across the world.
- **Editing** a range of research reports as well as a hardcover book published by Springer.

7. Practicum – Australia Awards Scholar

School of Chemical Engineering, University of New South Wales

February 2011 – August 2011 • Sydney, Australia

8. Visiting researcher

University Henri Poincare / Université de Lorraine, France

June 2009 – Sep 2009 • Nancy, France

Selected publications

Refereed journal papers (sort by year)

1. Goh CS (2020) Transforming exploitative land-based economy: The case of Borneo. Environmental Development. In Press.
2. 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. In Press.
3. Junginger M, Koppejan J, Goh CS (2019) Sustainable bioenergy deployment in East and South East Asia: notes on recent trends. Sustainability Science. In Press.
4. 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.
5. 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.
6. 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.
7. 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.

8. 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.
9. Goh CS (2016) Can We Get Rid of Palm Oil? *Trends in Biotechnology* 34(12):948-950.
10. 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.
11. Matzenberger J, Kranzl L, Tromborg E, Junginger M, Daioglou V, Goh CS, Keramidis K (2015) Future perspectives of international bioenergy trade. *Renewable Sustainable Energy Reviews* 43:926-941
12. Goh CS, Junginger M, Faaij A (2014) Monitoring sustainable biomass flows: General methodology development. *Biofuels, Bioproducts and Biorefining* 8(1):83-102.
13. 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.
14. 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.
15. 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.
16. 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.
17. Goh CS, Lee KT (2010) Will biofuel projects in Southeast Asia become white elephants? *Energy Policy* 38(8):3847-3848.
18. Goh CS, Tan HT, Lee KT, Bhatia S (2010) Bio-ethanol from lignocellulose: status, perspectives and challenges in Malaysia. *Bioresource Technology* 101(13):4834-4841.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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 (2020) Transforming exploitative land-based economy to reduce terrestrial carbon stock loss: The case of Kalimantan. In: Djalante R et al. (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.