

CURRICULUM VITAE

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EDUCATION

- 2011 - 2014 PhD in Development Economics, Faculty of Economics & Administration, University Malaya, Malaysia.
Thesis title: Technological Transitions, Resource Acquisitions and Organizational Capability Building: A Study of Latecomer Strategies in the Integrated Circuit Industry
- 2006 - 2008 Bachelor of Business and Marketing Management (First class honours, Cumulative Grade Point Average, CGPA: 3.90/4.00) Oxford Brookes University, United Kingdom (partner institution Nilai University, Malaysia).
- 2005 - 2006 Business Foundation Studies Program (CGPA: 3.92/4.00) Nilai University, Malaysia.

CURRENT POSITIONS

- 2023 – present **Lead Senior Researcher**, EPFL Space Center, Swiss Federal Institute of Technology Lausanne, Switzerland
- 2019 – present **Assistant Professor (Guest)**, Innovation Studies Section, Copernicus Institute of Sustainable Development, Utrecht University, The Netherlands

PREVIOUS POSITIONS

- 2019 – 2023 **Research Scientist**, Department Environmental Social Sciences, EAWAG, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland
- 2017 – 2019 **Marie Skłodowska-Curie Individual Fellow**, Innovation Studies Section, Copernicus Institute of Sustainable Development, Faculty of Geosciences, Utrecht University, the Netherlands.
- 2015 – 2016 **Post-doctoral researcher**, Department of Environmental Social Sciences, EAWAG, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland.
- 2011 – 2014 **Bright Sparks PhD candidate**, Department of Development Studies, Faculty of Economics and Administration, University of Malaya, Malaysia.

SCIENTIFIC LEADERSHIPS/ MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- May 2023 Co-Lead, Earth-Space Governance Working Group, Earth System Governance (ESG)
- Since 2022 Co-Chair, Commons in Space, International Association for the Study of the Commons (IASC)
- Since 2021 Steering Group, Sustainability Transitions Research Network (STRN)
- Since 2021 Member of Ostrom Workshop Commons Program at Indiana University
- Since 2014 5th Lindau Nobel Laureate Meeting on Economic Sciences Alumni
- Since 2012 Member of the GLOBELICS Academy Alumni.

FELLOWSHIPS AND AWARDS

- 2019 **Best paper award** at the 10th International Sustainability Transitions (IST) 2019 conference in Ottawa, Canada for the paper Van Welie, M, Truffer, B., Yap, X.-S.
- 2017 – 2019 **Marie Skłodowska-Curie Individual Fellowship**, European Commission (hosted by Utrecht University, secondment at Aalborg University in Copenhagen).
- 2015 – 2016 **Swiss Government Excellence Scholarship (International)**, Swiss Confederation.
- 2014 Selected to participate in 5th **Lindau Nobel Laureate Meeting on Economic Sciences** 2014, Lindau, Germany. **Nominated by Academy of Science Malaysia**, selected by the Council for Lindau Nobel Laureate Meetings.
- 2012 – 2014 **PhD research initiation grant**, High Impact Research Unit, University of Malaya.
- 2012 **Best PhD Paper Award** at the 10th Global Network for the Economics of Learning, Innovation, and Competence Building Systems (GLOBELICS) Conference 2012, China.
- 2011 – 2013 Full PhD Scholarship for **Bright Sparks PhD Fellow** (a **fast-track PhD** program that skips Master's degree; highly competitive at national level: in 2011 only 5 social science PhDs were enrolled, out of which 2 were international students).
- 2005 – 2008 **Full Scholarship for Bachelor Degree Studies and Foundation Studies** (partner institutions Oxford Brookes University, UK and NILAI University, Malaysia).

TEACHING/ SUPERVISION OF GRADUATE STUDENTS

- 2020 – present Sole supervision of 9 Master theses (8 completed with 2 cum laude, 1 ongoing) in Innovation Sciences (IS) and Sustainable Business & Innovation (SBI), Utrecht University; Co-supervision of 1 ongoing Master thesis in Sustainable Development: track Earth System Governance (SD-ESG), Utrecht University.
- Fall 2023 Guest Lectures, Innovation and International Development, Copernicus Institute of Sustainable Development, Utrecht University.
- Sept 2022 Guest Lecture on Catching-up, Leapfrogging, and Beyond, Innovation and International Development, Copernicus Institute of Sustainable Development, Utrecht University.
- Nov 2019 Invited Lecture on Catching-up and Leapfrogging, Department of Economic Geography, University of Kiel.
- Dec 2018 Guest Lecture on Regional Innovation Systems, Innovation Sciences, Copernicus Institute of Sustainable Development, Utrecht University.

ORGANISATION OF SCIENTIFIC MEETINGS

- Nov 2022 **Organizer special session at IST 2022** 'Extending multi-system transitions from Earth to Space' with Jochen Markard, Laur Kanger, Bernhard Truffer, Chad Baum
- Nov 2022 **Co-chair of Commons in Space 2022** conference with Marco Janssen (Arizona State University), International Association for the Study of the Commons. Nov 2 – 4, 2022.
- Oct 2022 **Co-organizer special session at Earth System Governance 2022** conference 'Exploring the interface of Earth and Space governance' with Rakhyun Kim, Frank Biermann, Aarti Gupta, Jean-Frederic Morin. Oct 21, 2022.
- June 2022 **Co-organizer special session track at Eu-SPRI 2022** 'Space sector in transformation' with Douglas Robinson.
- Oct 2021 Co-organizer special session at IST 2021 (Truffer, B., Binz, C., Heiberg, J., Mjörner, J., and Yap, X.-S.) 'Toward a new methodological paradigm in transition studies? Recent approaches to analyze large collections of texts by discourse (network) analysis, topic modelling or natural language processing', virtual.
- Oct 2021 Co-organizer special session at IST 2021 (Murphy, J., Majidova, P. and Yap, X.-S.) 'Whither sustainability and development in transitions research? Conceptual considerations, empirical illustrations', virtual.
- 2017 Main organizer, Inter-disciplinary Workshop of Catching-up and Sustainability Transitions at Aalborg University, Denmark.

REVIEWING ACTIVITIES

- 2014 - present Journal reviewer for *Research Policy*, *Environmental Innovations and Societal Transitions*, *Technological Forecasting & Social Change*, *Regional Studies*, *Geoforum*, *Knowledge Management Research & Practice*, *Int. Journal of Technological Learning, Innovation & Development*, *Int. Journal of Manufacturing Research*
- Since 2022 Reviewer for the Commons in Space conference (Co-Chair)
- Since 2022 Reviewer for the International Sustainability Transitions (IST) conference (Steering Board)
- Since 2015 Reviewer for the GLOBELICS Conference.

PUBLICATION LIST

International peer-reviewed journal articles, books, and book chapters

- Yap, X.-S.**, and Kim, R. E. (2023) Towards earth-space governance in a multi-planetary era. *Earth System Governance*, 16, 100173. <https://doi.org/10.1016/j.esg.2023.100173>
- Yap, X.-S.**, Heiberg, J. and Truffer, B. (2023) The emerging global socio-technical regime for tackling space debris: A discourse network analysis. *Acta Astronautica*, 207, 445-454. <https://doi.org/10.1016/j.actaastro.2023.01.016>
- Yap, X.-S.**, Truffer, B., Li, D., and Heimeriks (2022) Towards transformative leapfrogging. *Environmental Innovation and Societal Transitions*. 44: 226-244 <https://doi.org/10.1016/j.eist.2022.07.003>
- Yap, X.-S.** and Truffer, B. (2022) Contouring ‘earth-space sustainability’. *Environmental Innovation and Societal Transitions*. 44: 185-193. <https://doi.org/10.1016/j.eist.2022.06.004>
- Yap, X.-S.** (2021) Opportunities and Challenges of Space-based Infrastructures for Arctic Governance: Assessment from an Innovation System Perspective. In Kim, J.-D. and Morrison, C.E. (Eds.): *Science, Technology and the Path Forward for a New Arctic*, Chapter 17, p. 216 – 228. Busan and Hawaii: Korea Maritime Institute and East-West Center.
- Markard, J., van Lente, H., Wells, P. and **Yap, X.-S.** (2021) Neglected developments undermining sustainability transitions. *Environmental Innovations and Societal Transitions*. 41: 39-41. <https://doi.org/10.1016/j.eist.2021.10.012>
- Binz, C., Gosens, J., **Yap, X.-S.** and Yu, Z. (2020) Catching-up in global innovation systems: A comparison of four Chinese cleantech industries. *Industrial and Corporate Change* 2020: 1-19. <https://doi.org/10.1093/icc/dtaa020>
- Yap, X.-S.** and Truffer, B. (2019) Shaping selection environments for industrial catch-up and sustainability transitions: A systemic perspective on endogenizing windows of opportunity. *Research Policy*, 48(4): 1030-1047. DOI: <https://doi.org/10.1016/j.respol.2018.10.002>
- Van Welie, M., Truffer, B., and **Yap, X.-S.** (2019) Towards sustainable urban basic services in low-income countries: A TIS analysis of sanitation value chains in Nairobi, *Environmental Innovations and Sustainability Transitions* 33: 196-214. <https://doi.org/10.1016/j.eist.2019.06.002>
- Rasiah, R. and **Yap, X.-S.** (2019) How much of Raymond Vernon’s product cycle thesis is still relevant today: Evidence from the integrated circuits Industry. *International Journal of Technological Learning, Innovation and Development*, 11(1): 56-77. <https://doi.org/10.1504/IJTLID.2019.097435>

Yap, X.-S. and Rasiah, R. (2017) *Catching Up and Leapfrogging: The new latecomers in the integrated circuits industry*, **Routledge Studies in Global Competition**, New York: Routledge. <https://www.routledge.com/Catching-Up-and-Leapfrogging-The-new-latecomers-in-the-integrated-circuits/Yap-Rasiah/p/book/9781138212787>

Yap, X.-S. and Rasiah, R. (2017) Catching up and leapfrogging in a high-tech manufacturing industry: towards a firm-level taxonomy of knowledge accumulation, *Knowledge Management Research & Practice*, 15 (1): 114-129. <https://link.springer.com/article/10.1057/kmrp.2015.21>

Yap, X.-S. and Rasiah, R. (2017) “The lost tiger: The technological learning case of Malaysian semiconductor firms”. In Tsvetkova, A., Schmutzler, J. Suarez, M. and Faggian, A. (Eds.): *Innovation in Developing and Transition Countries: Learning, Collaboration and Public Policy*, MA: Edward Elgar. <http://www.e-elgar.com/shop/innovation-in-developing-and-transition-countries>

Rasiah, R., **Yap, X.-S.** and Salih, K. (2017) Sub-national governments and technological upgrading in the integrated circuit cluster in Northern Malaysia, *Innovation and Development*, 7(2): 287-307. <http://dx.doi.org/10.1080/2157930X.2016.1261760>

Rasiah, R., Mubarik, S., and **Yap, X.-S.** (2017) Financing Technological Upgrading in East Asia, *The Lahore Journal of Economics* (Special Edition), 22(SE): 153-182. <http://www.lahoreschoolofeconomics.edu.pk/EconomicsJournal/Journals/Volume%2022/Issue%20SP/07%20Rasiah.pdf>

Rasiah, R., Shahriwar, R. B. and **Yap, X.-S.** (2016) Institutional support, innovation capabilities and exports: Evidence from the semiconductor industry in Taiwan, *Technological Forecasting and Social Change*, 109 (2016), 69–75. <https://doi.org/10.1016/j.techfore.2016.05.015>

Rasiah, R. and **Yap, X.-S.** (2016) Institutions, technological capabilities and domestic production linkages in the semiconductor industry in Singapore, *Asia Pacific Business Review*, 22(1):180-192. <http://dx.doi.org/10.1080/13602381.2014.990213>

Rasiah, R. and **Yap, X.-S.** (2016) Institutions, regional trade linkages and technological capabilities in the semiconductor industry in Malaysia, *Asia Pacific Business Review*, 22(1): 165-179. <http://dx.doi.org/10.1080/13602381.2014.990210>

Rasiah, R., **Yap, X.-S.** and Yap, S.-F. (2015) Sticky spots on slippery slopes: the development of the integrated circuits industry in emerging East Asia, *Institutions and Economies*, 7(1): 52-79. <http://ijie.um.edu.my/index.php/ijie/article/view/5001>

Rasiah, R., **Yap, X.-S.** and Govindaraju, C. (2014) Crisis effects on the electronics industry in Southeast Asia, *Journal of Contemporary Asia*, 44(4): 645-663. <http://dx.doi.org/10.1080/00472336.2014.923637>

Wong, C.-Y. and **Yap, X.-S.** (2012) Mapping technological innovations through patent analysis: a case study of foreign multinationals and indigenous firms in China, *Scientometrics*, 91: 773–787. <https://link.springer.com/article/10.1007/s11192-011-0595-3>