

Curriculum Vitae

Xiao-Shan YAP

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EMPLOYMENT HISTORY

Scientist [since May 2019]

EAWAG, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland

Guest Assistant Professor [since June 2019]

Copernicus Institute of Sustainable Development, Faculty of Geosciences, Utrecht University, the Netherlands

Marie Skłodowska-Curie Post-doctoral Researcher [1 June 2017 – 31 May 2019]

Copernicus Institute of Sustainable Development, Faculty of Geosciences, Utrecht University, the Netherlands

Post-doctoral Researcher [1 September 2015 – 31 March 2017]

EAWAG, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland

Post-doctoral Researcher [January 2015 – July 2015]

Faculty of Economics and Administration, University of Malaya, Kuala Lumpur, Malaysia

Worked on research projects during PhD

EDUCATION

Doctor of Philosophy (Ph.D.) in Development Economics [January 2011 – 16 December 2014]

Bright Sparks (fast-track) PhD awarded by University of Malaya, Malaysia

Faculty of Economics and Administration

Thesis Title: Technological Transitions, Resource Acquisitions and Organizational Capability Building: A Study of Latecomer Strategies in the Integrated Circuit Industry

Bachelor of Business and Marketing Management (Honours) [May 2006 – June 2008]

Oxford Brookes University, United Kingdom (local collaborator Nilai University, Malaysia)

Cumulative Grade Point Average (CGPA): 3.90 / 4.00, First Class Honours

Business Foundation Studies Program [July 2005 – March 2006]

Nilai University, Malaysia

Cumulative Grade Point Average (CGPA): 3.92 / 4.00

AWARDED SCIENTIFIC GRANTS

Global Transitions and Innovation Systems (GLOTRAINS) [1 June 2017 – 31 May 2019]

Project awarded by **European Commission Marie Skłodowska-Curie Individual Fellowship**

This project consists of fieldwork for solar photovoltaic industry in China and Malaysia, as well as fieldwork for semiconductor industry in Taiwan and Malaysia. It involves patent analyses and qualitative content analysis. Personally conducted 50 interviews so far.

Technological Innovation System in Globalization Era: Emerging sustainability transitions in China water treatment industry [1 September 2015 – 31 March 2017]

Project awarded by **Swiss Government Excellence Scholarship**

Personally conducted 44 in-depth semi-structured interviews with key experts in China wastewater treatment industry. Analyzed qualitative findings with MaxQDA software.

Technological Upgrading in Semiconductor Firms in East Asia [June 2012 – May 2014]

Project awarded by **High Impact Research (HIR) Unit, University of Malaya**

Personally conducted research fieldwork including scoping studies, 60 in-depth semi-structured interviews and expert group meetings in Malaysia, Singapore, Taiwan, China and South Korea. Analyzed firm-level industrial and corporate dynamics.

PRIZES/ AWARDS

- 2017 – 2019 **Marie Sklodowska-Curie Individual Fellowship** (hosted by Utrecht University, the Netherlands, official secondment with Department of Business and Management, Faculty of Social Sciences, Aalborg University Copenhagen, Denmark)
- 2015 – 2016 **Swiss Government Excellence Scholarship (International)**, by Swiss Confederation (hosted by Eawag, Switzerland).
- 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 **Best Ph.D. Paper Award** by the GLOBELICS committee at the 10th Global Network for the Economics of Learning, Innovation, and Competence Building Systems (GLOBELICS) Conference 2012, China.
- 2011 – 2013 Full PhD Scholarship and Research Initiation Grant for **Bright Sparks PhD Fellow** (a **fast-track PhD** program that skips the Master's degree; highly competitive at the national level; in 2011 only 5 social science PhD students were selected and enrolled in University Malaya under this program out of which 2 were foreign students).
- 2005 – 2008 **Full Scholarships for Bachelor Degree** Studies and Foundation Studies (partner institutions Oxford Brookes University, UK and NILAI University, Malaysia).

INVITED PRESENTATIONS

- 2019 Invited lecture on Catching-up, Department Economic Geography, University of Kiel, Germany.
- 2018 Development Studies Seminar, University of Malaya, Malaysia.
- 2016 Innovation Studies Seminar, Utrecht University, the Netherlands.

PUBLICATION LIST***In preparation***

Yap, X.-S. From knowledge-based to valuation oriented catching-up: China's recent shift in global positioning in the solar PV industry.

Yap, X.-S., Truffer, B. and Binz, C. Catching-up meets sustainability: Contemplating latecomer strategic trade-offs when facing emerging windows of opportunity in clean technologies. Paper presented at the 9th *International Sustainability Transitions (IST) Conference*, Manchester, UK, June 11-14, 2018.

Binz, C., Gosens, J., **Yap, X.-S.** and Yu, Z. Catching-up in global innovation systems: A comparison of four Chinese cleantech industries. Paper presented at the 5th *Global Conference on Economic Geography (GCEG)*, Cologne, Germany, July 24-28, 2018. (Submitted to *Industrial and Corporate Change*).

Publications in peer-reviewed scientific journals

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.

Van Welie, M., Truffer, B., and **Yap, X.-S.** (accepted) Towards sustainable urban basic services in low-income countries: A TIS analysis of sanitation value chains in Nairobi, *Environmental Innovations and Sustainability Transitions*.

Rasiah, R. and **Yap, X.-S.** (accepted) 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*. DOI pending.

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>

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., Shahrivar, 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> (Co-authorships arranged in alphabetical order.)

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>

Peer-reviewed conference proceedings (post-doctoral time)

Yap, X.-S. and Truffer, B. (2018) Sustainability transitions and technological catch-up: Guidance of search as a strategic mechanism for leapfrogging. *Globelics Conference Working Paper Series*, 2018-07.

<https://papers.globelics.org/article/sustainability-transitions-and-technological-catch-up-guidance-of-search-as-a-strategic-mechanism-for-leapfrogging/>

Peer-reviewed book

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>

Peer-reviewed contribution to books

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>