

Personal Information

Education and Training

Ghent University (Belgium)

PhD in Bioscience Engineering: Agricultural and Environmental Economics (2014 November-2018 December)

Research Areas: Agricultural and Environmental Science, Climate Change Economics, Vulnerability Assessment, Climate Change Adaptation and Resilience Planning, Social Science, Behavioral Science

Thesis Title: Characterizing Farm Household's Vulnerability and Adaptation to Climate Change in Myanmar

Supervisors: Prof. Dr.ir. Guido Van Huylenbroeck (1st supervisor), Prof. Dr. ir. Stijn Speelman (2nd supervisor)

Ghent University (Belgium), University of Pisa (Italy), Humboldt University (Germany), Agro-campus Quest (France), Slovak University of Agriculture, Wageningen University (NL)

International Master of Science (M.Sc) in Rural Development (2012 September- 2014 September)

Modules: Development theories and methodologies, Agricultural Economics, Institutional Management, Rural Sociology, Rural Project Management, Microeconomic and Farm Management, Research Methodology, Advanced marketing and agribusiness management, Economic and Management of Natural Resources, Environmental Economics, Economic Geography, etc

Thesis Title: Impact Assessment of Swar Irrigation Dam on Socioeconomic Conditions of Paddy Growers in Yedashe Township, Myanmar

Degree classification: Second upper

Ruppin Academic Center (Israel)

Diploma in Agribusiness Management Science (2010 August – 2011 August)

Modules: Food marketing and consumer behaviors, Plant Protection, Irrigation and water management, Food processing and Packaging, Agribusiness management, Agronomy and Entomology, etc

Thesis Title: Production and Marketing Trends of Banana, Mango and Flowers in Northern Israel

Degree classification: Second upper

Yezin Agricultural University (Myanmar)

BSc in Agricultural Science (Soil and Water Management) (2004 September – 2008 September)

Modules: Agronomy, Soil and Water Management, Horticultural Sciences, Agricultural Economics

Thesis Title: Performance of Rice (*Oryza sativa*) as affected by Different Water Regimes

Degree classification: 4.6/5 (Upper)

RESEARCH AND WORKING EXPERIENCES

Sustainable Ocean Alliance, SOA-Hub Myanmar (June 2023- Oct 2023)

Project Leader/Fellow

Disciplines: Climate-Resilient Fisheries Management in Myanmar

Principal Investigator: Taylor Garret (SOA-Global Unit)

WWF-Cassagnol Fellowship (July, 2022- Oct 2023)

Project Leader/Fellow

Disciplines: Empowering the adaptive capacity and resilience of stakeholders in the process of community-based resource management planning

Principal Investigator: Dr. Nelly Kadagi (WWF-EFN)

Stockholm Environmental Institute (SEI)-Sustainable Mekong Research Network (SUMERNET) (Bangkok) (Oct 2020- Mar 2023)

Project Lead/ Research Leader

Disciplines: Climate change adaptation, capacity building, qualitative and quantitative research, agriculture and aquaculture sector development, leadership and project management

Principal Investigator: Prof. Dr. Louis Lebel, Mr. Agus Nugroho, Prof. Dr. Philippe Lebailly

Food and Agricultural Organization of the United Nations (FAO) (Myanmar)

National CCA-DRM -Vulnerability Assessment Specialist (2019 Feb – 2021 Dec)

Disciplines: (1) Climate Change Adaptation (CCA), Disaster Risk Management (DRM) and Vulnerability Assessment (2) Fishery and Aquaculture, (3) Ecosystem based natural resources management, (4) Agricultural economics, and development economics

Principal Investigator: Dr. Roberto Sandoval, Mr. Jose Parajue (CTA), Mr. Richard Gregory (CTA)

Mie University (Japan)

Assistant Lecturer (2018 December – 2019 February)

Disciplines: (1) Environmental and ecological economics, (2) Agricultural economics, and development economics, (3) Sociological perspective

Principal Investigator: Prof. Dr. Hisatsuna Mori

Ghent University (Belgium)

PhD researcher (2014 November – 2018 November)

Project: Characterizing farm households vulnerability and adaptation to Climate Change in Myanmar

Supervisors: Prof. Dr.ir. Guido Van Huylenbroeck, Prof. Dr. ir. Stijn Speelman

Michigan State University (USA) and CESD (Myanmar)

Research Associate (2016 December – 2017 August)

Project: (1) Food Security Policy Project, (2) Rural Economics and Agriculture in Dry Zone of Myanmar, Agricultural mechanization research, Migration and climate change researches

Principal Investigator: Prof. Dr. Ben Belton, Prof. Dr. Duncan Boughton (USA)

Researcher and Agricultural Trainer (2010 August – 2011 August)

Project: Production and Marketing Trends of Banana, Mango and Flowers in Northern Israel

Principal Investigator: Mr. Alex (Geva Kermel Farm, Heifa District, Israel), Ms. Sharon (Granot Project)

PROJECT PARTICIPATION

Years	Project description/ Title	Role/Responsibility	Organization/ Project Funds
2022- Oct 2023	Climate Resilience Fisheries Fellowship	Project Leader	Sustainable Ocean Alliance (SOA), New York, USA
2022- 2023	Empowering the adaptive capacity of stakeholder's involved in the processes of Community Resource Integrated Management Planning (CRIMP) in Myanmar	Research Fellow	World Wildlife Fund for Nature (WWF-Cassagnol Fellowship), USA
2020- 2023	Evaluation of the adaptive capacity and resilience of agriculture and aquaculture-dependent livelihoods in flood prone areas of Vietnam and Myanmar	Project leader (Researcher)	Stockholm Environmental Institute (SEI)-Sumernet Collaborative Research Project, Thailand
2019- 2021	Strengthening adaptive capacity and resilience of fisheries and aquaculture dependent communities in Myanmar, GEF funded project under Food and Agriculture Organization of the United Nations	National CCA/DRM-VA specialist	FAO FishAdapt project, Myanmar
2017-2019	<i>Farming system with the adaptation to climate change: case study focus on lowland areas in Cambodia, Myanmar and Vietnam</i>	Project lead Researcher	The International Foundation of Science (IFS) Sweden
2017	Dry Zone Community Economic Assessment Survey (CESD_Michigan State University)	Research Associate	Center for Economic and Social Development, Myanmar
2014-2018	Food security in the light of climate change in Myanmar	PhD Researcher	Ghent University, Belgium
2013-2014	Impact Assessment of Irrigation dam on socioeconomic status of farmers in Myanmar	Researcher	Ghent University, Belgium

REGISTRATION IN PROFESSIONAL ASSOCIATIONS & ORGANIZATIONS

Date of registration	Association, organization	Country
22 June 2023- present	Sustainable Ocean Alliance	United State of America (USA)
2-June-2022 - present	Beahrs Environmental Leadership Fellow Association BEAHRS ELP	United State of America (USA)
15-Oct-2020 – Apr, 2023	Sustainable Mekong Research Network (SUMERNET)	Thailand
July-2017- July 2018	Society for Conservation Biology (SCB)	Colombia
1-Jan-2017 - present	Young Professional For Agriculture and Rural Development Association (YPARD)	Switzerland
2-Sep-2014 - present	World Wildlife Fund for Nature Association (WWF)	United State of America
1-Aug-2010 - present	Granot Agricultural Training	Israel
15-Nov-2008 - present	Agricultural University Alumni Association (AUAA)	Myanmar

FOREIGN LANGUAGES –

- English (Fluent & full professional proficiency)
- German (Basic user: limited working proficiency)
- Burmese (Mother tongue or bilingual proficiency)
- Italian (Basic user: limited working proficiency)

AWARDS AND HONORS

Years of Awards/Honors	Awards/Honors/Grants	Organizations/locations
2023 – present	Climate Resilience Fisheries Fellowship	(SOA), USA
2022-present	World Wildlife Fund for Nature (WWF)-Cassagonal Fellow Grant	USA
2022	Beahrs Environmental Leadership Fellowship Program (ELP) Grant, UC Berkely	USA
2020-2022	Stockholm Environment Institute: Fund for Collaborative Research Project under Sustainable Mekong Research Network (SUMERNET)	Thailand
2019	Ecosystem approach to fishery and aquaculture management	Myanmar
2019	ASEAN Water Platform Grant	Cambodia
2017	Netherland Fellowship for Climate Change Course	Uganda
2017	DAAD alumni grant	Vietnam
2017	Right Livelihood Junior Researcher Award, Bonn	Germany
2014-2016	World Wildlife Fund (WWF) and Russell E. Train Education for Nature Fellowship	Belgium
2017	World Wildlife Fund (WWF) Professional	Colombia

	Development Grant	
2016	Norwegian Government Scholarship for Summer School	Oslo, Norway
2012-2014	Erasmus Mundus Scholarship_ Lotus 1 Asia Region-master's degree scholarship	Belgium

PROFESSIONAL DEVELOPMENT

Years of PD	PD courses/certificates	Organizations/country
2023	Climate Resilient Fishery Management	Virtual Fisheries Academy
2023	System Leadership	University of California, Berkeley, USA
2023	Ecosystem-based Adaptation: working with nature to adapt to a changing climate	GIZ, IUCN, IISD
2022	Beahrs Environmental Leadership Program	University of California, Berkeley, USA
2021	IWRM for climate resilience	Online
2019	Ecosystem based fishery management (EAFM)	FAO, Myanmar
2019	Ecosystem based aquaculture management (EAAM)	FAO, Myanmar
2019	Gender Equality	FAO E-Learning
2019	Working together harmoniously	FAO E-Learning
2019	ASEAN Water Platform	Cambodia
2017	Climate change adaptation in Food Security and Natural Resources Management	Mekerere University, Kampala, Uganda
2017	International Congress for Conservation Biology	Cartegena, Colombia
2017	DAAD alumni workshop on Land-use and land-cover management with respect to ecosystem services	Hue University, Vietnam
2016	International Summer School on Environmental and Natural Resource Management	University of Oslo, Norway
2016	Benefit-Cost Analysis Short Course	Yezin Agricultural University, Myanmar
2014	FLAMES Research Skill Training	Vrije University of Brussels, Belgium
2012	Summer school –Faculty of Bioscience Engineering	Ghent University, Belgium
2012	Agri-Youth Training Program	Mekong Institute, Thailand

VARIOUS

- 2023 : **Academic Reviewer:** World Wildlife Fund for Nature (WWF)_EFN Fellowship
- 2023 : **Guest speaker,** Climate Smart Agriculture, Proximity Design, Yangon
- 2023 : **Lecturer:** Research proposal writing and project management skill training

- 2023 : **Academic Advisor:** Miss-Agripreneur Social Enterprise Firm
- 2022 : **Speaker:** Young professional for Agriculture and Rural Development Series: Opportunities and Youths
- 2022 : **Speaker:** Study in Europe: Mentorship for Scholarship Applicants
- 2021 : **Panelist** at Sumernet Research Forum (SEI) and WWF_EFN Professional Development Workshop
- 2019 : **Guest lecturer** at Mie University, Japan
- 2019 : **Guest Speaker** at Yangon University, Department of Fishery Research
- 2019 : **Speaker** at Climate Talk Series, Conyet Create, Yangon, Myanmar
- 2017 : **Right Livelihood Junior Scientist:** Organization: Center for Development Research, University of Bonn, Germany
- 2017 : **Panelist** at WWF_EFN Professional development workshop

SELECTED PUBLICATIONS

Peer Reviewed Publication

1. **Tun Oo, A.**; Boughton, D.; Aung, N. Climate Change Adaptation and the Agriculture–Food System in Myanmar. *Climate* **2023**, *11*, 124. <https://doi.org/10.3390/cli11060124>
2. Minh.D.D, **Tun Oo, A.**, and KY. Sovannndara .(2023). “Farm households’ vulnerability to climate change in Cambodia, Myanmar, and Vietnam: An advanced livelihood vulnerability indexing approach”, *Journal of Agriculture and Rural Development*, *13* (1), [75–90. 10.55493/5005.v13i1.4768](https://doi.org/10.55493/5005.v13i1.4768).
3. **Tun Oo, A.**, Van Huylenbroeck, G. and Speelman, S. (2020). Measuring the economic impacts of climate change on crop production in the dry zone of Myanmar: A Ricardian Approach, *Climate*, Vol. 8 (1), 9p. <https://doi.org/10.3390/cli8010009>
4. **Tun Oo, A** (2018). “Characterizing farm households’ vulnerability and adaptation to climate change in Myanmar. PhD thesis dissertation, Ghent University, Belgium
5. **Tun Oo, A.**, Van Huylenbroeck, G. and Speelman, S. (2018). Characterizing households’ vulnerability to climate change in Pyapon district in the delta region of Myanmar, *International Journal of Global warming*, Vol.16 (4), April 2018. <https://doi.org/10.1504/IJGW.2018.095993>
6. **Tun Oo, A.**, Van Huylenbroeck, G. and Speelman, S. (2018). Assessment of climate change vulnerability of farm households in Pyapon District, a delta region in Myanmar, *International Journal of Disaster Risk Reduction*, Vol. 28, pp. 10–21. <https://doi.org/10.1016/j.ijdr.2018.02.012>
7. **Tun Oo, A.**, Van Huylenbroeck, G. and Speelman, S. (2017). Determining factors for the application of climate change adaptation strategies among farmers in Magwe District, dry zone region of Myanmar, *International Journal of Climate Change Strategies and Management*, Vol. 9 (1), pp. 36-55. <https://doi.org/10.1108/IJCCSM-09-2015-0134>
8. **Tun Oo, A.**, Van Huylenbroeck, G. and Speelman, S. (2017). Differential impacts of an irrigation project: Case study of the *Swar Dam Project* in Yedashe, Bago region of Myanmar, *Journal of Development and Agricultural Economics*, Vol. 9 (7), pp: 178-189. <https://doi.org/10.5897/JDAE2017.0824>

Publication in scientific journal or website

- 1) **Tun Oo Aung** (2023). “Adaptation and Resilience Measures to Climate Change: Lessons from Myanmar's Rice and Fish Farmers”, University of California (UC-Berkeley), Policy brief paper, available online <https://iep.berkeley.edu/content/adaptation-and-resilience-measures-climate-change-lessons-myanmar’s-rice-and-fish-farmers>

- 2) **Tun Oo, A.** (2023) – “Myanmar on a knife-edge of climate crisis with COUP”, Environmental Leadership Blog Journal, University of California, Berkeley. Available online: <https://iep.berkeley.edu/content/myanmar-knife-edge-climate-crisis-coup>
- 3) FAO (2021) (**co-author**): FishAdapt: Fishery Value Chain Disruptions amid the development of Covid-19 and civil unrest in Myanmar, Technical report, Food and Agriculture Organization of the United Nations (FAO), Myanmar.
- 4) FAO (2020) (**co-author**): Impact of the Covid-19 Pandemic on Fishing and Aquaculture Communities: Three Phase Survey Outcome Report for FishAdapt, Outcome Report, Food and Agriculture Organization of the United Nations (FAO), Myanmar. Available on: <http://www.fishadapt.org/sites/default/files/pdf/resources/FishAdapt%20Report.%20Impact%20of%20Covid-19%20on%20Fishing%20%26%20Aquaculture%20Communities%20Final%20Aug%202020.pdf>
- 5) **Tun Oo, A.**, Minh, D.D and Sovandara KY (2019). “[Farming system with the adaptation to climate change: case study focus on lowland areas in Cambodia, Myanmar and Vietnam](#)”, Technical Report No. CLIANDHH NO.1, International Foundation of Science (IFS).
- 6) Belton, B., Filipski, M., Hu, C, **Tun Oo, A.** and Htun, A (2017). ‘Rural Transformation in Central Myanmar: Results from the rural economy and agriculture Dry Zone Community Survey’, Food Security Policy Project (FSPP), Working paper, MDI_CESD, 2017. www.foodsecuritylab.msu.edu
- 7) **Tun Oo, A.** (2017) “[Community Perceptions of the Impacts of Climate Change on Agriculture in Myanmar’s Central Dry Zone](#)”, Food Security Policy Project, Published by the Department of Agricultural, Food, and Resource Economics, Michigan State University. http://foodsecuritypolicy.msu.edu/uploads/resources/Research_Highlights_13.pdf
- 8) **Tun Oo, A.**, Van Huylenbroeck, G. and Speelman, S. (2014). “*Impact Assessment of Swar’ Irrigation dam on socioeconomic conditions of Paddy Farmers in Yedashe Township, Myanmar*”, Ghent University, Belgium.

Articles currently under review

1. Tun Oo, Aung and Minh, Dao Duy and Cho, Ame, Assessment of the Vulnerability of Women's and Men's Households to the Impacts of Climate-Related Natural Disasters in the Coastal Areas of Myanmar and Vietnam. Available at SSRN: <https://ssrn.com/abstract=4446702> or <http://dx.doi.org/10.2139/ssrn.4446702>
2. Tun Oo, A., D.D Minh and Ame C. “Determining factors and barriers to the uptake of farmer choice of climate change adaptation strategies in the coastline areas of Myanmar”, Journal of climate change strategies and management (IJCCSM).

Conference participation with oral or poster presentations

1. Tun Oo, A. (2017). The Society for Conservation Biology’s International Congress for Conservation Biology (ICCB), World Wildlife Fund for Nature, Climate Change Session Panelist, Cartagena, Columbia.
2. Tun Oo, A., Van Huylenbroeck, G. and Speelman, S. (2016). ‘*The Assessment of Climate Vulnerability for Farmers Households in Pyapon District, Delta Region of Myanmar*’, 3th International Conference on Geology, Environment, and GIS for students and young researchers, Targiviste, Romania.

3. Tun Oo, A., Van Huylenbroeck, G. and Speelman, S. (2016). 'Farm Households' Vulnerability to Saltwater Intrusion and Flooding in Pyapon District, Delta Region of Myanmar', International Conference on climate Change: impacts and responses, Hanoi, Vietnam.
4. Tun Oo, A., Van Huylenbroeck, G. and Speelman, S. (2016). 'Assessment of household food security through crop diversification in Natmawk Township, Magway Region, Myanmar', Tropentag-2016 Vienna, Austria.
5. Tun Oo, A., Van Huylenbroeck, G. and Speelman, S. (2015). *Determining Factors for the Application of Climate Change Adaptation Strategies Among Farmers in the Magwe District in the Dry Zone Region of Myanmar*, Tropentag-2015, Berlin, Germany.

NEWSPAPER ARTICLES AND MAGAZINES

- Supporting Myanmar's future conservation leaders: Aung Tun Oo's story, [2014/11/21](http://www.wwf.org.mm/en/efn/fellowships_programme/aung_tun_oo_s_story/)
- Welcoming YPARD Myanmar Representative: Aung Tun Oo, 2017/01/20, <https://ypard.net/2017-january-20/welcoming-ypard-myanmar-representative-aung-tun-oo>
- Blog-Journal: Myanmar on the knife-edge of climate crisis amid political crisis: Behrs Environmental Leadership Program, <https://iep.berkeley.edu/content/myanmar-knife-edge-climate-crisis-coup>
- **Adaptation and resilience measures to climate change: lessons from the Myanmar's Rice and Fish-farmers (June, 2023)** <https://iep.berkeley.edu/content/adaptation-and-resilience-measures-climate-change-lessons-myanmar-s-rice-and-fish-farmers>
- Interview story on the China-daily news: [Enhance water management cooperation in Lancang-Mekong Region, by Yang Han \(journalist\)](#)

SKILLS AND COMPETENCES

- **Technical skills:** Climate Change Vulnerability Assessment and Adaptation specialist, Rural and agricultural development specialist, Early Warning and Early Action Consultant, Rural and agricultural economics research and project implementation, Training of Trainers (TOT), community-based resource management planning specialist, climate smart agriculture, ecosystem based natural resource management, social and humanitarian science, rural and agricultural development, etc
- **Leadership:** Erasmus Mundus Country Representative to Myanmar (September, 2012-2016), Country Representative - Young Professional in Agricultural Development (YAPRD)- (2017- current)
- **Computer and statistical skills:** Good command of Microsoft Office™ tools (Word™, Excel™, Photoshop CS2™ and PowerPoint™), **SPSS version (20-23), Excel™ (CBA), STATA, GAMS, R-Console**
- **Social skills:** Good ability in flexible with the environment, can provide and manage with the own ideas to another people; can support the technical and policies support for the development of rural and urban communities
- **Organization skills:** Good management in team, stimulate the mind power of organizer
- **Artistic skills:** Poem composing, Guitar Playing and Songs Listening
- **Other skills:** Research Experiences (10 years), Research Proposal writing and grant application, implementation of short and long term research projects