

Mr. Lukas Pawera, MSc.

A multidisciplinary food system researcher and development advisor with over 7 years of experience. Background in sustainable agriculture and resource management, with further training in food security, nutrition, and food system approaches. Experienced in assessments of biodiversity, crop production, food security and nutrition. Solid experience in proposal development, project management, capacity building, methodologies and monitoring, knowledge synthesis, communication and reporting, and fellowship programme coordination. Trained in system thinking and holistic approach to problem-solving. Building bridges between different disciplines and sectors for better outcomes through integrated solutions and platforms. Aiming for sustainable development goals while maintaining biocultural diversity and increasing socio-ecological resilience. Main project experiences come from Indonesia, India, and Ethiopia. Author or contributor of eight scientific papers, three book chapters, and five manuals/guidelines. Work experience from seven different institutions.

Nationality: Czech Republic

Date of born: 20/05/1988

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Researchgate: https://www.researchgate.net/profile/Lukas_Pawera2?%20ev=hdr_xprf

Twitter: <https://twitter.com/LukasPawera>

AREAS OF EXPERTISE:

Sustainable use of biodiversity | resilient food systems | diversification and nutrition-sensitive agriculture | diets and malnutrition | food security and livelihood | sustainability and socio-ecological linkages | landscape resilience | participatory conservation | barrier analysis and behaviour change

EDUCATION:

PhD in Tropical Agrobiology and Bioresource Management - Czech University of Life Sciences Prague (2016 – 2021; anticipated March 2021)

MSc in Tropical Crop Management and Ecology (with distinction) - Czech University of Life Sciences Prague (2011 - 2014)

BSc in Agriculture of Tropics and Subtropics - Czech University of Life Sciences Prague (2008 - 2011)

WORK EXPERIENCE:

Center for International Forestry Research (CIFOR) – Consultant for the Sustainable Landscape and Livelihoods Team

- Data analysis and publication development - Dietary patterns among Dayak women across the forest transition in Borneo (3/03/2021 – ongoing; home-based)

Alliance of Bioversity International and CIAT - Consultant expert on socioeconomy and biodiversity

- Contribution to preparation of GEF project (PPG phase) – Crop diversity conservation for sustainable use in Indonesia (8/02/2021 – ongoing; home-based)

Alliance of Bioversity International and CIAT - Consultant specialist for the Indigenous Partnership

- Development of food system learning platform (27/07/2020 – 15/10/2020; home-based)

Bioversity International - Consultant for the Indigenous Partnership

- Improving the Indigenous fellowship training programme (03/02/2020 – 07/02/2020; Rome)

Bioversity International - Consultant for the Indigenous Partnership

- Operationalizing barrier analysis and landscape resilience tools (14/10/2019 – 07/11/2019; India, Thailand, Indonesia)

Bioversity International - Consultant for the Indigenous Partnership

- Indigenous Fellowship programme specialist (22/05/2019 – 17/07/2019, Rome)

Bioversity International - Research fellow at the Indigenous Partnership

- Survey of dietary diversity and agrobiodiversity (07/01/2019 – 15/03/2019; Shillong, India)

Project Principal Investigator - funded by Neys-Van Hoogstraten Fou. and Erasmus Mundus ALFABET

- Food, Agrobiodiversity and Diet project in West Sumatra (01/01/2018 – 31/12/2018; Jakarta and Padang, Indonesia)

Alliance of Indigenous Peoples of the Indonesian Archipelago (AMAN) - Consultant and trainer

- Training on monitoring of food systems (01/07/2018 – 14/07/2018; Jakarta, Indonesia)

Bioversity International - Research fellow at the Platform for Agrobiodiversity Research (PAR)

- Contribution to the development of method book – Assessing Agrobiodiversity: A Compendium of Methods (22/02/2018 – 21/03/2018; home-based)

Bioversity International - Intern at the Healthy Diets from Sustainable Food Systems Initiative

- Support of UNEP-GEF funded Biodiversity for Food and Nutrition (BFN) project and PhD project proposal development (01/08/2017 – 30/09/2017; Rome, Italy)

Swisscontact Indonesia - Intern at Research and Development Unit

- Support of Good Nutrition Practices Project, a Component of Sustainable Cocoa Production Program (01/11/2015 – 30/06/2016; Makassar, Indonesia)

People in Need - Intern in project monitoring and reporting

- Monitoring and reporting of agricultural, livelihood and environment projects (15/01/2015 – 07/03/2015; Hawassa, Ethiopia)

Hawassa University - Volunteer for Vondo Genet College of Forestry and Natural Resource

- Assistance in arboretum and herbarium (17/10/2014 – 18/11/2014; Hawassa, Ethiopia)

Research Institute for Fodder Crops – Parttime assignments

- Assistance with the collection of plant genetic resources (crop wild relatives) (15/06/2014 – 30/08/2014; Troubsko, Czech Republic)

Atregia - Parttime job

- Inventory and assessment of trees (1/4/2014 – 30/6/2014; Hradec Kralove, Czech Republic)

Lomza Landscape Park - Erasmus traineeship

- Landscape park maintenance and botanical mapping (1/6/2013 – 30/9/2013; Lomza, Poland)

SKILLS:

Organizational and management skills: research and project coordination; small team management; fellowship training coordination; leadership of student council; project and proposal development; holistic system thinking; organization of academic, community and policy events.

Communication and digital skills: good social and communication skills; social media coordination (Facebook, Twitter, LinkedIn, Instagram); questionnaire design and expert interviews; multi-stakeholder event coordination; facilitation skills and participatory visualization; academic writing and storytelling; technical content development; reporting skills; online meetings and conferencing.

Technical and analytical skills: Microsoft office package; SPSS statistical software; Jamovi statistical software; R programming language (novice); coordination of learning platform; data interpretation and visualization (e.g., Tableau Public, RAWgraphs, statistical softwares); basics of GIS (ArcGIS, DIVA-GIS); relationship and system mapping (Kumu).

Research methods and monitoring: Biodiversity and crop diversity assessments; dietary assessment (dietary diversity and adequacy); food security assessment; traditional knowledge documentation; crop production and transect measurement; landscape resilience indicators; local attitudes and preferences; barrier analysis and behavior change; literature reviews and syntheses; participatory approaches; impact studies and evaluations; both quantitative and qualitative methods

Personal and professional characteristics: high adaptability, flexibility, optimism, perseverance, problem-solving, passionate in cross-cultural teams, resilient in challenging environments and in the field, skilled in online and remote work.

Languages: English (C1), Indonesian (B1), Spanish (A2), Russian (A1)

SELECTED TRAINING:

Assessing Food Environments for Healthy Diets (learning lab) - Agriculture, Nutrition and Health Academy (24/06/2020, online)

Understanding drivers of food choice in changing food environments of low- and middle-income countries (learning lab) - Agriculture, Nutrition and Health Academy (24/06/2020, online)

Course on data analysis in SPSS - Czech University of Life Sciences Prague (08/01/2020 – 29/01/2020, Prague, Czech Republic)

Visualization in Participatory Programmes (VIPP) – Dr Timmi Tillmann (4/7/2019 - Rome, Italy)

Tipping the scales: System thinking for project development and fundraising - The Confluencers (1/7/2019 - 3/7/2019, Rome, Italy)

Farmer field schools and integrated pest management – Dr Kevin Gallaher, the founder of the farmer field school concept (20/5/2019 – 21/5/2019, Shillong, India).

Managing trade-offs: methods and tools for policy decision-making (learning lab) – Agriculture, Nutrition and Health Academy (25/06/2019, Hyderabad, India)

Innovative technologies for data collection in agriculture and nutrition research (learning lab) – Agriculture, Nutrition and Health Academy (24/06/2019, Hyderabad, India)

Communication training – Ajay Nayak – The Educated Environments (31/5/2019 - Shillong, India).

Seminar on Indonesian food composition and dietary assessment - SEAMEO RECFON (25/4/2019, Jakarta, Indonesia)

Workshop on food, nutrition, and ethnobotany - Czech University of Life Sciences Prague and Bogor Agricultural University (22/01/2018, Bogor, Indonesia)

Workshop on dietary assessment methods - The Nutrition Society (04/10/2017, London, UK)

Community seed bank workshop – FAO and Bioversity International (22/9/2017 – Rome, Italy)

Course: Crop genetic diversity in the field and on the farm: Principles and applications in research - Bioversity International, Platform for Agrobiodiversity Research, and Sapienza University (11/09/2017 - 15/09/2017, Rome, Italy)

Workshop on traditional knowledge and oral history (humans and landscape) – Institute of Landscape Ecology (20/4/2017 – 21/4/2017, Nitra, Slovakia)

Course: Management of (sub-)tropical land use systems - Kassel University in Germany and Czech University of Life Sciences Prague (17/03/2014 - 28/03/2014, Prague, Czech Republic)

PEER-REVIEWED RESEARCH ARTICLES:

Nongrum M, **Pawera L**, Mawroh H. Dietary diversity and its determinants among Khasi and Garo Indigenous people in Meghalaya, Northeast India (under revision in Nutrition and Health).

Borelli T, Hunter D, Powell B, Ulian T, Mattana E, Termote C, **Pawera L**, Beltrame D, Penafiel D, Tan A, Taylor M, Engels MMJ (2020) Born to eat wild: an integrated conservation approach to secure wild food plants for food security and nutrition. *Plants* 9 (10): 1299.

Pawera L, Khomsan A, Zuhud EAM, Hunter D, Ickowitz A, Polesny Z (2020) Wild food plants and trends in their use: From knowledge and perceptions to drivers of change in West Sumatra. *Foods* 9 (9): 1240.

Nurhasan M, **Pawera L**, Lo M, Pratama MF, Rahmah M, Mustika MHU, Rowland D (2020) Commentary: Oil Palm Boom and Household Diets in the Tropics. *Frontiers in Sustainable Food Systems* 4: 39.

Reátegui CR, **Pawera L**, Panduro VPP, Polesny Z (2018) Beetles, ants, wasps, or flies? An ethnobiological study of edible insects among the Awajún Amerindians in Amazonas, Peru. *Journal of Ethnobiology and Ethnomedicine* 14: 53.

Reimers E, Cusimamani E, Rodriguez E, Zepeda del Valle J, Polesny Z, **Pawera L** (2018) An ethnobotanical study of medicinal plants used in Zacatecas state, Mexico. *Acta Societatis Botanicorum Poloniae*, 87(2): 3581.

Pawera L, Luczaj L, Pieroni A, Polesny Z (2017) Traditional plant knowledge in the White Carpathians: Ethnobotany of wild food plants and crop wild relatives in the Czech Republic. *Human Ecology* 45(5): 655-671.

Pawera L, Verner V, Termote C, Kandakov A, Karabaev NA, Polesny Z (2016) Medical ethnobotany of herbal practitioners in the Turkestan Range, southern Kyrgyzstan. *Acta Societatis Botanicorum Poloniae*, 85(1): 3483.

Vlkova M, Verner V, Kandakov A, Polesny Z, Karabaev N, **Pawera L**, Nadvornikova I, Banout J (2015) Edible plants sold on marginal rural markets in Fergana Valley, southern Kyrgyzstan. *Bulgarian Journal of Agricultural Sciences* 21: 243–250.

BOOK CHAPTERS:

Mawroh B, **Pawera L**, Lyngdoh S, Nongrum S (accepted) Shifting cultivation as an important source of food biodiversity for dietary diversity. In Cairns M (Ed) *Farmer Innovations and Best Practices by Shifting Cultivators in Asia-Pacific*. CABI Publishing.

Lojka B, **Pawera L**, Kalousová M, Bortl L, Verner V, Houška J, Vanhove W, Van Damme P (2017) Multistrata Systems: Potentials and Challenges of Cocoa-based Agroforests in the Humid Tropics. In:

Dagar CHJ and Tewari PV (eds.) *Agroforestry Anecdotal to Modern Science*. Springer, Singapore, pp 587-628.

Pironi A, **Pawera L**, Shah GM (2016) Gastronomic ethnobiology. In: Albuquerque UP, Nóbrega A, Romulo R (eds.) *Introduction to ethnobiology*. Springer, New York, pp 53-62.

METHOD BOOKS AND GUIDELINES:

PAR (2018) *Assessing Agrobiodiversity: A Compendium of Methods*. Platform for Agrobiodiversity Research, Rome.

Pawera L et al. (2018) Food plants of Minangkabau and Mandailing cocoa farmers in Pasaman district, West Sumatra, Indonesia. *Biodiversity for nutrition and health - Community guidebook*. Swisscontact, Jakarta. (Indonesian language)

Pawera L, Polesny Z (2015) Potential of agrobiodiversity and traditional knowledge to combat hidden hunger. *Development goal 2: Food security in development projects: A handbook of implementation of foreign development cooperation of Czech Republic*. Czech University of Life Sciences Prague Press, pp 6- 35. (Czech language)

Swisscontact Indonesia (2016) *Good Nutrition Practices (GNP)*. Swisscontact training manual, pp. 32. (Indonesian language)

CONFERENCES AND SEMINARS:

Pawera L, Polesny Z, Hunter D, Termote C (2020) Dietary diversity but from what kind of foods? Incorporating food processing into dietary diversity indicators. *Agriculture, Nutrition, and Health Academy Week*, 30. 6 - 2. 7. 2020, online (video presentation).

Thwe SM, **Pawera L**, Whitney C, Polesny Z (2019) Agrobiodiversity of Homegardens in Pyay District, Myanmar. *Tropentag*, 18-20. 9. 2019, Kassel, Germany (oral).

Tasev M, Carbonó E, **Pawera L**, Whitney C, Verner V, Polesny Z (2019) Urban Ethnobotany: Medicinal Plants Used for the Treatment of Noncommunicable Diseases in Santa Marta, Colombia. *Tropentag*, 18-20. 9. 2019, Kassel, Germany (poster).

Pawera L and Mawroh B (2019) Profiling Indigenous Food Systems (IFS) Context and methods. *Seminar on matriarchal indigenous food systems*, 10.7. 2019, FAO, Rome, Italy (oral).

Pawera L, Khomsan A, Zuhud EAM, Lipoeto N, Polesny Z, Hunter D (2019) Developing new quantitative indices for assessing the potential of edible species for dietary diversity. *Agriculture, Nutrition and Health Academy Week*, 24-28. 6. 2019, Hyderabad, India (oral).

Pawera L (2018) Linking Ethnobiology with Nutrition: Methods, Approaches, and Way Forward. *Workshop on Food, Nutrition, and Ethnobotany*, 22.1.2018, Bogor, Indonesia (oral).

Pawera L, Tumova B, Termote C, Polesny Z, Hunter D (2017) Diversity of edible plants in food systems of Bugis, Mandar, Minang, and Acehnese cocoa farmers in Indonesia. *58th Annual Meeting of the Society for Economic Botany*, 4-9. 6. 2017, Braganca, Portugal (oral).

Purba ECH, **Pawera L**, Nisyawati, Silalahi M (2017) Gastronomic ethnobiology of Terites: indigenous food specialty of Batak Karo people in North Sumatra, Indonesia. *58th Meeting of the Society for Economic Botany*, 4-9. 6. 2017, Braganca, Portugal (poster).

Pawera L, Luczaj L, Polesny Z (2017) Could bio-cultural refugia safeguard important reservoirs of traditional plant knowledge in highly industrialized countries? A case study of the White Carpathians, Czech Republic. *58th Annual Meeting of the Society for Economic Botany*, 4-9. 6. 2017, Braganca, Portugal (poster).

Pawera L (2017) White Carpathians as a bio-cultural hotspot of the Czech Republic? Ethnoecological workshop, 20-21. 4. 2017, Nitra, Slovakia (oral).

Pawera L, Tumova B, Hunter D (2017) Survey of local food plants and dietary diversity of smallscale cocoa farmers in Sulawesi and Sumatra and its implications for a large-scale nutrition project. Symposium of Biodiversity and Wild Edible Species, 3-5. 4. 2017, Antalya, Turkey (oral).

Pawera L, Polesny Z (2016) Ethnomycology of White Carpathians. Ethnobiology workshop, 3-4. 12. 2016, Wroclaw, Poland (oral).

Pawera L, Polesny Z (2016) Neglected potential of agrobiodiversity and traditional knowledge to combat hidden hunger. Tropical Biodiversity Conservation Conference, 8-9. 11. 2016, Prague, Czech Republic (keynote speech).

Pawera L (2013) Traditional uses of medicinal and wild edible plants in White Carpathians. 3rd workshop of Eastern European Ethnobiology, 9-13. 10. 2013, Rzeszow, Poland (oral).

Pawera L, Polesny Z, Verner V, Sodobekov IS, Kandakov A, Karabaev NA (2013) Medicinal plants used in Turkestan Range (Leilek District, Western Kyrgyzstan). 7th Scientific Conference of the Faculty of Tropical AgriSciences, 28. 11. 2013, Prague, Czech Republic (oral).

MEMBERSHIP IN SOCIETIES OR EXPERT GROUPS:

Society for Economic Botany (student representative-elect and upcoming student president)

FAO Global Hub on Indigenous Food Systems (expert member)

SIANI (member and expert)

Agriculture, Nutrition and Health (ANH/IMMANA) community (member)

YPARD (member)

NESFAS Task Force on Malnutrition in North-East India (committee member)

EDITORIAL AND REVIEW SERVICES:

Editorial board: Ethnobotany Research and Applications

A reviewer: Frontiers in Sustainable Food Systems, Ecology of Food and Nutrition, Journal of Ethnobiology and Ethnomedicine, Human Ecology, Genetic Resources and Crop Evolution, Acta Societatis Botanicorum Poloniae

AWARDS AND SCHOLARSHIPS:

(2018) Josef Hlavka annual award for Czech students with the best outcomes and creative thinking

(2018) Scholarship for mobility to Indonesia within Erasmus Mundus ALFABET

(2017) Julia F. Morton Award for the best poster at the meeting of the Society for Economic Botany

(2016) Second place in the Asia-Pacific Rainforest Photo Competition. CIFOR:

<http://www.cifor.org/asiapacific-rainforest-summit/photo-competition/entries/?photo=140>

REFERENCES:

Danny Hunter (Alliance of Bioersivity International and CIAT, Senior Scientist at the Healthy Diets from Sustainable Food Systems Initiative, Rome), email: d.hunter@cgiar.org

Phrang Roy (Coordinator of the Indigenous Partnership for Agrobiodiversity and Food Sovereignty, former Assistant President of IFAD), email: phrangroy@gmail.com

Amy Ickowitz (CIFOR, Team Leader - Sustainable Landscapes and Livelihood), email:
a.ickowitz@cgiar.org

Zbynek Polesny (Associate Professor at the Faculty of Tropical Agrisciences, Czech University of Life Sciences Prague), email: polesny@ftz.czu.cz