

# Dr Saritha Kittie UDA

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Research Gate: <https://www.researchgate.net/profile/Saritha-Uda>

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## Education

- Ph.D. (Environmental Systems Analysis), Wageningen University & Research, the Netherlands
  - M.Sc. (Environmental Sciences), Wageningen University & Research, the Netherlands
  - B.Sc./S.Si. (Biology Science), University of Padjadjaran, Indonesia
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## Professional Experience

FEBRUARY 2025 – PRESENT

### **Research Fellow, Asia Research Institute, NUS**

- Working under the “Climate Governance of Nature-based Carbon Sinks in Southeast Asia (CGSEA)” project, on peatland and agricultural soils.

DECEMBER 2002 - PRESENT

### **Lecturer & Researcher, University of Palangka Raya**

#### **Biology Education Study Programme**

- Lectured, supervised, and academically advised bachelor's and master's students. Courses: environmental sciences and education; biodiversity, ecology (plant ecology & peatland ecology); general biology; biological learning strategies, bio-computation, and biological learning media.
- Involved in various research projects at the Faculty of Teacher Training and Education, Faculty of Agriculture, Centre for International Cooperation in the Sustainable Management of Tropical Peatlands (CIMTROP), Centre of Environmental Education (PPLH), and the Centre for Forest Fire Control and Rehabilitation in University of Palangka Raya.

2009 - 2013

### **Secretary, Biology Education Study Programme, Faculty of Teacher Training and Education, University of Palangka Raya**

- Managed administrative data, meetings, and reports.

2016

### **Study Visit Assistant, NIRAS IC SP. Z O.O. UL. Puawska 182, 02-670 Warsaw, Poland.**

- EU Study Visit Assistance and Information Exchange on Effective Peatland Management Strategies of the Indonesian delegation to some European Union (EU) partners in Belgium and the Netherlands.

1998 - 2002

### **Temporary Staff, The Environmental, Social, and Cultural Division in the Regional Development Planning Agency (Bappeda) of Central Kalimantan Province**

- Managed administrative data, meetings & reports, & conducted spatial and statistical analysis.
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# Research Area/Topic/Discipline

Peatland and Ecosystems: Environmental Sciences; Ecosystem Services Valuation; Institutional Fit; Traditional Ecological Knowledge; Biology Education; Biology Learning Media.

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## Short Biography

Dr. Saritha Kittie Uda is a transdisciplinary scientist at the science, technology, and society interface, specializing in environmental systems analysis. Her research emphasizes peatland issues and has been published in various journals. Her works are documented in IPR and ISBN records, including the development of the “SARITHA-Apps”, an environmental science mobile learning media, and “SARITHAKU”, an eco-enzyme soap derived from Borneo peatland plants. She serves as a research fellow at the Asia Research Institute (ARI), National University of Singapore (NUS), under the Climate Governance of Nature-based Carbon Sinks in Southeast Asia project, focusing on the socio-ecological dynamics and sustainability of peatland management.

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## Publications

Selected works (first-authored publications)

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### Books

- **Saritha Kittie Uda** (2025). *Environmental Sciences of Indonesian Tropical Peatlands [in Bahasa: Pengetahuan Lingkungan: Ekologi Lahan Gambut Tropis Indonesia]*. CV. Pustaka Press Indonesia. ISBN: 9786340452150. <https://www.pustakapress.id/product/pengetahuan-lingkungan-ekologi-lahan-gambut-tropis-indonesia-environmental-sciences-of-indonesian-tropical-peatlands/>
- **Saritha Kittie Uda**, Chaidir Adam, Awalul Fatiqin. (2022). *Microalgae of Peat Water in Palangka Raya City [in Bahasa: Mikroalga Perairan Gambut Palangka Raya]*. Universitas Palangka Raya. Intellectual Property Rights (IPR/HKI) No. EC002022108608, dated 19 December 2022.
- **Saritha Kittie Uda**, Najamuddin, Lusiana Dewi Anggraeni, Juleha. (2021). *Biodiversity and Ethnobotany of Local Plants Paludicrops in Central Kalimantan [in Bahasa: Ikhtisar Biodiversitas Dan Etnobotani Paludicrop Tumbuhan Lokal Kalimantan Tengah]*. Intellectual Property Rights (IPR/HKI) No. EC00202185447, dated 28 December 2021.
- **Saritha Kittie Uda** (2019) *Sustainable Peatland Management in Indonesia: Towards better understanding of socio-ecological dynamics in tropical peatland management*. Dissertation. Proefschrift Maken, Wageningen. ISBN: 9789463951173. <https://edepot.wur.nl/499309>.

### Referred Articles

- **Uda, S. K.**, Prasetyo, D., & Uda, S. A. K. A. (2025). Towards Environmental Literacy as Public Infrastructure: Exploring Indonesian Youth Perspectives on Climate Change Issues [in Bahasa: Menuju Literasi Lingkungan Sebagai Infrastruktur Publik: Eksplorasi Perspektif Pemuda Indonesia Terhadap Isu Perubahan Iklim]. *BiosciED: Journal of Biological Science and Education*, 6(2), 1–16. doi: <https://doi.org/10.37304/bed.v6i2.23619>.
- **SK Uda**, A Jaya, C Adam, and A Fatiqin (2024). Exploratory study on the genus diversity of tropical paludi-microalgae as a potential source of human nutrition and other products. *Mires and Peat*, 31(16): 19pp. doi: <https://10.19189/MaP.2023.OMB.Sc.2457053>.
- **SK Uda**, D Prasetyo, ESEB Dopo, SAKA, Uda, and Basrowi (2024) Development of Mobile Learning Application System for Environmental Science Material (SARITHA-Apps). *International Journal of Information and Education Technology*, 14(3): 452-463. doi: <https://10.18178/ijiet.2024.14.3.2066>. <https://www.ijiet.org/vol14/IJiet-V14N3-2066.pdf>
- **SK Uda** & Basrowi (2024) Environmental education using SARITHA-Apps to enhance environmentally friendly supply chain efficiency and foster environmental knowledge towards sustainability. *Uncertain Supply Chain Management*, 12(1): 359-372. doi: <https://doi.org/10.5267/j.uscm.2023.9.015>.

- **Uda, S. K.**, Araina, E., & Savitri, S. (2024). Training in the Manufacture of Eco-Enzymes and Eco-Enzyme Soap from Borneo's Natural Plants for Students of the Biology Education Program at the University of Palangka Raya. *BALANGA: Jurnal Pendidikan Teknologi dan Kejuruan*, 12(2), 78-87. doi: <https://doi.org/10.37304/balanga.v12i2.17013>.
- **Uda SK** & Juleha J (2022) Ethnobotany of Paludicrops in Pilang Village, Pulang Pisau Regency [in Bahasa: Etnobotani Paludicrop Di Desa Pilang Kabupaten Pulang Pisau]. *BiosciED: Journal of Biological Science and Education*. 3(2):47-55. doi: <https://doi.org/10.37304/bed.v3i2.5292>.
- **Uda SK**, Schouten G & Hein L (2020) The institutional fit of peatland governance in Indonesia. *Land Use Policy*, 99:103300. doi: <https://doi.org/10.1016/j.landusepol.2018.03.031>.
- **Uda SK**, Hein L & Adventa A (2020) Towards better use of Indonesian peatlands with paludiculture and low-drainage food crops. *Wetlands Ecology and Management*. 28: 509–526. doi: <https://doi.org/10.1007/s11273-020-09728-x>.
- **Uda SK**, Hein L & Atmoko D (2019) Assessing the health impacts of peatland fires: A case study for Central Kalimantan, Indonesia. *Environmental Science and Pollution Research*. 26(30):31315–31327. doi: <https://doi.org/10.1007/s11356-019-06264-x>.
- **Uda SK**, Hein L & Sumarga E (2017) Towards sustainable management of Indonesian tropical peatlands. *Wetlands Ecology and Management*, 25: 683 - 701. doi: <https://doi.org/10.1007/s11273-017-9544-0>.
- **Uda SK**, Sitepu DSM & van Amstel A. (2017). Gaining in non-drained peatland: Scenarios 2050 of six paludiculture commodities in Indonesian. Proceedings on the Indonesian Scholars International Convention - International Symposium (ISIC-SI): Accelerating Indonesia's National Potential Towards 2030.
- **Uda SK** & Pristiwati G. (2016). Valuing and mapping ecosystem services hotspots and trade-offs to support sustainable peatland management. Proceedings on the 15<sup>th</sup> International Peatland Society Congress 2016: Peatlands in Harmony- Agriculture, Industry & Nature. <https://peatlands.org/document/valuing-and-mapping-ecosystem-services-hotspot-and-trade-offs-to-support-sustainable-peatland-management/>

## Book Chapters

- **Uda SK** (2017) Exploring the key sustainability issues, ecosystem services supplies, and potential response options to improve sustainable peatland management in Indonesia. In the Book of Abstracts of Wageningen Indonesia Scientific Exposure (WISE) Symposium 2017. Wageningen, the Netherlands.
- Alma Adventa, Fitria Husnatarina, Bhayu Rhama, Hendrik Segah, Rio S. Migang, **Saritha Kattie Uda**, et al. (2022). [*The main ideas of the Central Kalimantan "Utus Itah Community" regarding Sustainable Food Estate* [in Bahasa: Pokok pikiran "masyarakat utus itah" Kalimantan Tengah tentang lumbung pangan berkelanjutan (sustainable food estate)]. Uwais Inspirasi Indonesia. ISBN: 9786232273986

## Awards/Grants and Distinctions

- Indonesian President Award Satyalancana Karya Satya XX Tahun (2025).
- The Most Inspirational Lecturer [in Bahasa: Dosen Terinspirasi]. Program Studi Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Palangka Raya (2024).
- Agent of Change for the Development of Integrity Zones Towards Corruption-Free Areas and A Clean and Serving Bureaucracy within the Faculty of Teacher Training and Education, University of Palangka Raya [in Bahasa: Agen Perubahan Pembangunan Zona Integritas Menuju Wilayah Bebas dari Korupsi dan wilayah Birokrasi Bersih dan Melayani di Lingkungan Fakultas Keguruan dan Ilmu Pendidikan Universitas Palangka Raya] (2024).
- Indonesian President Award Satyalancana Karya Satya X Tahun (2017).
- The Indonesian Scholars International Convention (ISIC): The top 20<sup>th</sup> paper, titled: Gaining in non-drained peatland: Scenarios 2050 of six paludiculture commodities in Indonesia (2017).
- LPDP: Doctoral scholarship (2013).
- IIEF-Ford Foundation: Master scholarship (2005).