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*Alfan Gunawan Ahmad was born in Rembang on April 2, 1975. He received his primary and secondary education in Rembang, Central Java. His primary education was completed at Kutoharjo II Rembang State Elementary School and State Junior High School II, Rembang City. During his primary education, he also received additional formal education at Madrasah Ibtidaiyah An Nawawiyah Tasik Agung, Rembang City, for 7 years under the care of KH Asfani Thoha. He completed his senior high school education at the State Senior High School I Rembang. In 1993, he was accepted as a student of Institut Pertanian Bogor through the IPB Student Invitation Selection (IPB). He earned his Bachelor of Forestry degree in 1998. After becoming a Forestry Bachelor, he began his work as a Farmer Empowerment Action Program Facilitator in Karawang Regency.*

*Then, in 1999, he moved to Medan to start a new world of work as a lecturer at the Forestry Science Program at Universitas Sumatera Utara (USU) Medan. To strengthen his knowledge as a lecturer, he participated in the Forestry Science Study Program at the Graduate School of IPB and, in 2006, officially received a Master of Forestry degree. Not stopping there, he attended the Doctoral Program at the IPB Tropical Silviculture Study Program and officially received his Doctorate in 2014. Following the principle of lifelong learning, he again followed the learning process in the Professional Engineer Study Program at the Faculty of Forestry, Universitas Gajah Mada (UGM) Yogyakarta, and in January 2024, he officially held the title of Professional Engineer (Ir.).*

*Several times, Alfan Gunawan Ahmad was mandated to carry out additional duties at the University of North Sumatra: 1). Secretary of the Regular Community Service Committee of the Universitas Sumatera Utara (USU) in 2016; 2). Secretary of the USU Quality Management Unit (UMM) in 2017-2019, 3). Head of the Masters Program in Forestry, USU Faculty of Forestry in 2019-2021, and 4). Vice Dean for Academic, Student Affairs, and Alumni Affairs of the USU Faculty of Forestry for 2021-2026.*

*In lectures, Alfan Gunawan Ahmad teaches Urban Forest Science courses. He is a member of the team teaching for Forest Soil Science, Landscape Ecology, Conservation Area Management, and Environmental Pollution courses for Undergraduate Program in Forestry students. In addition, he also teaches courses for Masters Program in Forestry students, including Flora and Fauna Conservation, Ethnobiology, and Hydrometeorological Disaster Mitigation.*

*Alfan Gunawan Ahmad has also conducted scientific writing activities. Some of his articles include the Tree damage index in Taman Merdeka, Binjai City, North Sumatra Province, an Assessment of the tree damage level in Medan Beringin Park, The damage profile of kerai umbrella (Filicium desipiens) in Universitas of Sumatera Utara green space based on Forest Health Monitoring (FHM) method. Currently, he has a Scopus H index of 5.*

*Besides on campus, he also took part in the world outside the campus, where from 2018 to 2022, he became a member of the Expert Team for the Technical Acceleration of Intensive Silviculture (SILIN) promoted by the Indonesian Ministry of Environment and Forestry. At the Provincial Level, from 2015 until now, he has been a member of the North Sumatra Provincial Agricultural Extension Commission.*

*Alfan Gunawan Ahmad also participated in several professional organizations, including the Masyarakat Biodiversitas Indonesia (MBI), Masyarakat Silvikultur Indonesia (MASSI), Masyarakat Agroforestry Indonesia (MAFI), Persatuan Insinyur Indonesia (PII), and International Society for Mangrove Ecosystems (ISME).*

## Publications

2026
Jurnal nasional terakreditasi

### Analysis of Vegetation Density and Distribution of Green Belts in the City Center of Medan Using the Normalized Difference Vegetation Index

ANITA ZAITUNAH , NELLY ANNA , ALFAN GUNAWAN AHMAD , NUR HIDAYAT , SAMSURI , EVALINA HERAWATI

2025
Prosiding seminar internasional

### Development of nature-based tourism based on forest ecosystem potential in the Sipiso-Piso Tongging Geosite Area, Toba Global Geopark, Indonesia

AGUS PURWOKO , PINDI PATANA , ALFAN GUNAWAN AHMAD , SRI LOVELY HARITA

2025
Buku referensi

### Fenomena Antropogenik Di Kawasan KonservasI: Ancaman pada Gajah Sumatra (Elephas maximus sumatranus)

ULIL AMRI DAULAY , AGUS PURWOKO , ALFAN GUNAWAN AHMAD

2025
Buku referensi

### FENOMENA ANTROPOGENIK DI KAWASAN KONSERVASI: Ancaman pada Gajah Sumatra (Elephas maximus sumatranus)

AGUS PURWOKO , ALFAN GUNAWAN AHMAD , ULIL AMRI DAULAY

2025
Prosiding seminar internasional

### The diversity and distribution of Dipterocarpaceae in green space of Universitas Sumatera Utara

ALFAN GUNAWAN AHMAD

2024
Buku lainnya

### Dunia Asesor_Storytelling dari Assesment Center KLHK untuk mencapai Indonesia’s FOLU Net Sink 2030

ALFAN GUNAWAN AHMAD , Dr. Tuti Herawati, S. Hut, M. Si

2024
Buku lainnya

### Dunia Asesor_Storytelling dari Assesment Center KLHK untuk mencapai Indonesia’s FOLU Net Sink 2030

ALFAN GUNAWAN AHMAD

2024
Jurnal nasional terakreditasi

### Community perception toward mangrove restoration program in Kampung Nelayan Seberang, Medan

TIKA YUANA S , ALFAN GUNAWAN AHMAD , AGUS PURWOKO , ACHMAD SIDDIK THOHA , ONRIZAL

2023
Prosiding seminar internasional

### The above-ground biomass model of mangrove forest in Panai Hilir, Indonesia

SAMSURI , YUNASFI , ANITA ZAITUNAH , ALFAN GUNAWAN AHMAD , AFIFUDDIN DALIMUNTHE

2023
Prosiding seminar internasional

### The above-ground biomass model of mangrove forest in Panai Hilir, Indonesia

ALFAN GUNAWAN AHMAD , YUNASFI , AFIFUDDIN DALIMUNTHE , YOHANES BUDI SULISTIOADI , ANITA ZAITUNAH , SAMSURI

2023
Jurnal nasional

### Analysis of tree quality on the green line using google earth in Tanjung Morawa District, Deli Serdang Regency

ALFAN GUNAWAN AHMAD , SAMSURI , ANITA ZAITUNAH

2023
Jurnal nasional terakreditasi

### Strategy to Strengthening Forest Farming for Sustainable Mangrove Forest Management in the Coastal Area, Deli Serdang, Indonesia

ALFAN GUNAWAN AHMAD , SAMSURI

2023
Jurnal nasional terakreditasi

## Analysis of land cover change due to deforestation at Holiday Resort Nature Park, North Sumatra Province, Indonesia

AGUS PURWOKO , ALFAN GUNAWAN AHMAD , ULIL AMRI DAULAY

2022
Prosiding seminar internasional

## Lands Cover Dynamics of Siais Lake Catchment Area, Tapanuli Selatan District, Indonesia

ALFAN GUNAWAN AHMAD , ANITA ZAITUNAH , SAMSURI

2022
Prosiding seminar internasional

## Shade tree pattern of highland coffee plantation and coffee production in Aceh Tengah, Indonesia

SAMSURI , ANITA ZAITUNAH , ALFAN GUNAWAN AHMAD

2021
Jurnal nasional terakreditasi

## Spatial Information Technology Adoption for Developing Data Base of Village Resources

SAMSURI , DEDY ARISANDI , ANITA ZAITUNAH , ALFAN GUNAWAN AHMAD , RAZALI , BEJO SLAMET

2021
Jurnal nasional terakreditasi

## Spatial Information Technology Adoption for Developing Data Base of Village Resources

ALFAN GUNAWAN AHMAD , DEDY ARISANDI , SAMSURI , ANITA ZAITUNAH , RAZALI , BEJO SLAMET

2021
Jurnal nasional terakreditasi

## Spatial Information Technology Adoption for Developing Data Base of Village Resources

DEDY ARISANDI , BEJO SLAMET , SAMSURI , ALFAN GUNAWAN AHMAD , ANITA ZAITUNAH , RAZALI

2021
Prosiding seminar internasional

## Management model and feasibility of agroforestry practices in Sipolha Horison village, Simalungun regency, North Sumatra province, Indonesia

ALFAN GUNAWAN AHMAD , AGUS PURWOKO

2021
Jurnal nasional terakreditasi

## Fragmentation Typology of Sumatran Tropical Lowland Forest, Labuhanbatu Selatan - Indonesia

ALFAN GUNAWAN AHMAD , SAMSURI , ANITA ZAITUNAH

2021
Prosiding seminar internasional

## Analysis of agroforestry tree species composition and coffee cultivation production tropical highlands, Aceh Tengah - Indonesia

SAMSURI , ANITA ZAITUNAH , ALFAN GUNAWAN AHMAD

2021
Prosiding seminar internasional

## The damage profile of kerai payung (Filicium desipiens) in University of Sumatera Utara green space based on Forest Health Monitoring (FHM) method

SAMSURI , ARIDA SUSILOWATI , ALFAN GUNAWAN AHMAD , APRI HERI ISWANTO , ANITA ZAITUNAH , FIFI GUS DWIYANTI

2020
Jurnal internasional bereputasi

## Wildfire effects on forest structure of Pinus merkusii in Sumatra, Indonesia

ALFAN GUNAWAN AHMAD

2019
Jurnal internasional bereputasi

**Evaluation of plant species suitability for lowland forest landscape restoration in Lepan watersheds, Langkat district, north Sumatra, Indonesia**

ALFAN GUNAWAN AHMAD , ANITA ZAITUNAH , SAMSURI

2019
Jurnal nasional terakreditasi

**Analysis The Degree of Community Participation Possibility on Restoration Planning for Lowland Forest Landscape of Lepan Watershed-Langkat District**

ALFAN GUNAWAN AHMAD , SAMSURI

2017
Jurnal nasional terakreditasi

**PENINGKATAN MUTU PRODUK KELOMPOK USAHA PENGRAJIN ECENG GONDOK DI DESA SEMULA JADI KEC. DATUK BANDAR TIMUR KOTA TANJUNG BALAI DENGAN PERBAIKAN TEKNOLOGI PRODUKSI PADA PROSESÃƒâ€šÃ‚Â ...**

ALFAN GUNAWAN AHMAD , BUCHARI , NISMAH PANJAITAN

2014
Jurnal nasional terakreditasi

**Biomassa tusam (Pinus merkusii Jungh et De Vriese Tapanuli strain) pada sebaran alami di Sumatera Utara**

ALFAN GUNAWAN AHMAD

2026
Prosiding seminar internasional

**Growth of trembesi (Samanea saman) seedlings on waste growing media which modified with organic matter**

ALFAN GUNAWAN AHMAD

2026
Jurnal nasional

**Penerapan Good Manufacturing Practice Pada Pengolahan Keju Mozzarella Di Industri Rumah Tangga Cake Dan Bakery Kota Medan**

ALFAN GUNAWAN AHMAD

2026
Jurnal nasional terakreditasi

**Biomassa Tusam (Pinus Merkusii Jungh et De Vriese Tapanuli Strain) Pada Sebaran Alami Di Sumatera Utara [Biomass Estimation of Pinus Merkusii Jungh et de Vriese Tapanuli StrainÂ …**

ALFAN GUNAWAN AHMAD

2026
Jurnal nasional terakreditasi

**Analysis of land cover change due to deforestation at Holiday Resort Nature Park, North Sumatra Province, Indonesia**

ALFAN GUNAWAN AHMAD

2026
Jurnal nasional

**Budidaya Pakan Lebah Madu di Kawasan Fakultas Kehutanan USU Kuala Bekala**

ALFAN GUNAWAN AHMAD

## Researches

2023
Penelitian Dana Lokal Perguruan Tinggi

**Kesehatan Pohon dan Aspek Genetik Beberapa Jenis Pohon di Arboretum Universitas Sumatera Utara**

EVALINA HERAWATI , ALFAN GUNAWAN AHMAD

2021
Penelitian Tim Pasca Sarjana

### ANALISIS DAMPAK ANTROPOGENIK TERHADAP DEFORESTASI HUTAN DI KAWASAN TWA PUSAT LATIHAN GAJAH AEK RASO LABUHANBATU SELATAN SUMATERA UTARA

AGUS PURWOKO , ALFAN GUNAWAN AHMAD , ULIL AMRI DAULAY

## Community Services

2026
Ipteks Bagi Masyarakat

### Dewan Pengurus DPD Jagatara Sumatera Utara (ORMAS)

GUSTANTO , ARMIA SYAHPUTRA , ADRIAN HILMAN , PINDI PATANA , ZULHAM APANDY HARAHAP , ROSADI PATRA TANJUNG , EMIL SALIM , MANGARAJA HALONGONAN HARAHAP , AGUS PURWOKO , ALFAN GUNAWAN AHMAD , MUHAMMAD ROMI SYAHPUTRA

2023

### “Penerapan Good Manufacturing Practice Pada Pengolahan Keju Mozzarella Di Industri Rumah Tangga Cake Dan Bakery Kota Medan”

ADE TRISNA , YUNILAS , ALFAN GUNAWAN AHMAD , R. EDHY MIRWANDHONO , SINDY DAMAYANTI , ANISA ZUHRA , APRIANSYAH IRGIADI

2023

### “Penerapan Good Manufacturing Practice Pada Pengolahan Keju Mozzarella Di Industri Rumah Tangga Cake Dan Bakery Kota Medan”

ADE TRISNA , YUNILAS , ALFAN GUNAWAN AHMAD , R. EDHY MIRWANDHONO , SINDY DAMAYANTI , ANISA ZUHRA , APRIANSYAH IRGIADI

2019

### PENERAPAN TEKNIK SPASIAL UNTUK MENYUSUN DATA DASAR POTENSI DESA

SAMSURI , BEJO SLAMET , ANITA ZAITUNAH , RAZALI , ALFAN GUNAWAN AHMAD

2016
Ipteks

### OPTIMALISASI PEKARANGAN DALAM RANGKA PERBAIKAN LINGKUNGAN DAN POLA HIDUP SEHAT MASYARAKAT DI KELURAHAN SIJAMBI, KECAMATAN DATUK BANDAR, KOTA TANJUNG BALAI-PROVINSI SUMATERA UTARA

ALAM BAKTI , AMANATUL FADHILAH , HASANUDDIN , ALFAN GUNAWAN AHMAD , SITI SAIDAH NASUTION , DARMA BAKTI

2015

### Pelatihan Pemanfaatan Hasil Hutan Bukan Kayu Menjadi Berbagai Bentuk Menarik untuk Cenderamata dan Hiasan Bunga

DENI ELFIATI , KANSIH SRI HARTINI , ARIDA SUSILOWATI , SITI LATIFAH , ALFAN GUNAWAN AHMAD

## Intellectual Property Rights

2025
Hak cipta nasional

### Fenomena Antropogenik Di Kawasan KonservasI: Ancaman pada Gajah Sumatra (Elephas maximus sumatranus)

ULIL AMRI DAULAY , AGUS PURWOKO , ALFAN GUNAWAN AHMAD

2026
Hasil penelitian/pemikiran yang tidak dipublikasikan

### Analisis perubahan tutupan lahan, struktur genetik dan kandungan biomassa karbon Pinus merkusii Jungh. et de Vriese strain tapanuli pada sebaran alaminya di Sumatera Utara

ALFAN GUNAWAN AHMAD