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Moehar Maraghiy Harahap, S.Hut., M.Sc., was born in August 1989 and is the first of four siblings. From 2007 to 2011, he pursued his undergraduate education at Universitas Sumatera Utara (USU) and successfully earned a Bachelor's degree in Forestry (S.Hut.). Subsequently, he worked as a freelancer in natural resource mapping and became a permanent employee at one of the well-known plantation companies in Indonesia. In 2014, he continued his studies at Universitas Gadjah Mada (UGM) and earned a Master of Science (M.Sc) degree in 2016. He began actively teaching at a private university in North Sumatra in the same year, simultaneously continuing his career in a large plantation company in Indonesia.

With the desire to contribute and make an impact at his alma mater, he successfully graduated and was appointed as a Lecturer at the USU Faculty of Forestry in 2019. Until now, he has been actively involved in various activities related to the Tri Dharma Perguruan Tinggi (Education and Teaching, Research and Development, and Community Service) and has secured various research grants. From 2022 onwards, he has been entrusted with the role of editor-in-chief at the Journal of Sylva Indonesiana, managed by the USU Faculty of Forestry and published by Talenta Publisher USU.

Publications

2025
Prosiding seminar internasional

Temperature Humidity Index (THI) Measurement for Comfort Level Analysis at Faculty of Forestry, USU Bekala Campus, Deli Serdang - North Sumatra Province, Indonesia

ALFAN GUNAWAN AHMAD , MOEHAR MARAGHIY HARAHAP , SURI MUTIA SIREGAR , MUHAMMAD AZIZ BERUTU , DANI ABEL SHEVA , Wahyudin , Nor Akmar Abdul Aziz

2025
Prosiding seminar internasional

Comfort level on arboretum visitors of Universitas Sumatera Utara (USU) Bekala Campus, Indonesia

ALFAN GUNAWAN AHMAD , MOEHAR MARAGHIY HARAHAP , SURI MUTIA SIREGAR , MUHAMMAD AZIZ BERUTU , DANI ABEL SHEVA , Wahyudin , Nor Akmar Abdul Aziz

2025
Prosiding seminar internasional

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

ALFAN GUNAWAN AHMAD , MOEHAR MARAGHIY HARAHAP

2024
Makalah ilmiah

Transplanting Technique of Matoa (Pometia pinnata) Wildlings at Arboretum Bekala

KANSIH SRI HARTINI , RAHMAWATY , APRI HERI ISWANTO , MOEHAR MARAGHIY HARAHAP , LUIS EIDELWEISS

2024
Prosiding seminar internasional

Nature interpretation in green space of Universitas Sumatera Utara

MOEHAR MARAGHIY HARAHAP

2024
Prosiding seminar internasional

The distribution of Syzygium sp. and its potential use in green space of Universitas Sumatera Utara

MOEHAR MARAGHIY HARAHAP

2024
Prosiding seminar internasional

Analysis of the feasibility of the Sei Bah Bolon rafting ecotourism object, Serdang Bedagai Regency, North Sumatra Province

MOEHAR MARAGHIY HARAHAP

2024
Prosiding seminar internasional

Analysis of the feasibility of the Sei Bah Bolon rafting ecotourism object, Serdang Bedagai Regency, North Sumatra Province

ALFAN GUNAWAN AHMAD , MOEHAR MARAGHIY HARAHAP

2023
Prosiding seminar internasional

Spatial Distribution of Flood Vulnerability in Langkat Regency, North Sumatera Province, Indonesia

ACHMAD SIDDIK THOHA , BEJO SLAMET , MOEHAR MARAGHIY HARAHAP

2022
Jurnal internasional bereputasi

Spatial distribution of vegetation diversity, timber production, and carbon storage in secondary tropical rainforest at South Borneo

PANDU YUDHA ADI PUTRA WIRABUNA , YUSANTO NUGROHO , SUYANTO , MOEHAR MARAGHIY HARAHAP , LIA KUSUMANINGRUM

2022
Jurnal internasional bereputasi

Spatial distribution of vegetation diversity, timber production, and carbon storage in secondary tropical rainforest at South Kalimantan, Indonesia

MOEHAR MARAGHIY HARAHAP

2022
Prosiding seminar internasional

Tree damage index in Taman Merdeka, Binjai City, North Sumatra Province

ALFAN GUNAWAN AHMAD , MOEHAR MARAGHIY HARAHAP

2022
Prosiding seminar internasional

Analysis of correlation between vegetation cover density and urban index in Surakarta to support urban area sustainability

MOEHAR MARAGHIY HARAHAP

2022
Jurnal internasional bereputasi

Analysis of land-use change over five- and ten- year periods in Hamparan Perak, North Sumatra, Indonesia

ABDUL RAUF , RAHMAWATY , MOEHAR MARAGHIY HARAHAP

2022
Jurnal internasional bereputasi

Land cover change impact analysis: an integration of remote sensing, GIS and DPSIR framework to deal with degraded land in Lepan Watershed, North Sumatra, Indonesia

RAHMAWATY , MOEHAR MARAGHIY HARAHAP , ABDUL RAUF

2022
Jurnal internasional bereputasi

Vegetation diversity, structure and composition of three forest ecosystems in Angsana coastal area, South Kalimantan, Indonesia

MOEHAR MARAGHIY HARAHAP

2022
Prosiding seminar internasional

Identification of Land Cover Types and Their Changes in Kutalimbaru Sub-district, Deli-Serdang District, North Sumatra, Indonesia

MOEHAR MARAGHIY HARAHAP , RAHMAWATY , ABDUL RAUF

2021
Prosiding seminar internasional

Land cover changes monitoring over ten years in upstream watershed of Deli Serdang Regency North Sumatra Province

MOEHAR MARAGHIY HARAHAP , ABDUL RAUF , RAHMAWATY

2021
Prosiding seminar internasional

DPSIR1 model approach to address land-use changes in Deli Serdang District, North Sumatera Province

MOEHAR MARAGHIY HARAHAP , RAHMAWATY

2021
Prosiding seminar internasional

Changes in dryland forest cover in several sub-districts in Deli Serdang Regency

MOEHAR MARAGHIY HARAHAP , RAHMAWATY , ABDUL RAUF

2021
Prosiding seminar internasional

Assessment of land cover change over a period of five years in Deli Serdang, North Sumatra

RAHMAWATY , MOEHAR MARAGHIY HARAHAP , ABDUL RAUF

2021
Prosiding seminar internasional

Land use changes monitoring over a period of ten years in Panjang Island, Pangkalan Susu, Langkat, North Sumatra

RAHMAWATY , ABDUL RAUF , MOEHAR MARAGHIY HARAHAP

2021
Jurnal internasional bereputasi

The growth, aboveground biomass, crown development, and leaf characteristics of three eucalyptus species at initial stage of planting in Jepara, Indonesia

PANDU YUDHA ADI PUTRA WIRABUNA , SYAMSU ALAM , JERIELS MATATULA , MOEHAR MARAGHIY HARAHAP , YUSANTO NUGROHO , ALNUS MEINATA , Fahmi Idris , Dewa Ayu Sekar

2021
Jurnal internasional bereputasi

The growth, aboveground biomass, crown development, and leaf characteristics of three eucalyptus species at initial stage of planting in Jepara, Indonesia

MOEHAR MARAGHIY HARAHAP

2021
Jurnal internasional bereputasi

Maintaining tree biodiversity in urban communities on the university campus

MOEHAR MARAGHIY HARAHAP

2018
Jurnal internasional bereputasi

Effects of mangrove rehabilitation on density of Scylla spp. (mud crabs) in Kuala Langsa, Aceh, Indonesia

MOEHAR MARAGHIY HARAHAP

Researches

2025

Pengukuran Indeks Suhu Kelembaban (Temperature Humidity Index) dan Tingkat Kenyamanan Pengunjung di Arboretum Kampus Universitas Sumatera Utara (USU) Bekala, Kabupaten Deli Serdang, Provinsi Sumatera Utara, Indonesia

MOEHAR MARAGHIY HARAHAP , SURI MUTIA SIREGAR , ALFAN GUNAWAN AHMAD , Wahyudin

2024

Pengukuran Indeks Suhu Kelembaban (Temperature Humidity Index) dan Tingkat Kenyamanan Pengunjung di Arboretum Kampus Universitas Sumatera Utara (USU) Bekala, Kabupaten Deli Serdang, Provinsi Sumatera Utara, Indonesia

MOEHAR MARAGHIY HARAHAP , ALFAN GUNAWAN AHMAD

2023
Penelitian Dana Lokal Perguruan Tinggi

Penilaian Habitat Ruang Terbuka Hijau Sebagai Lokasi Keanekaragaman Hayati di Kota Medan

ERNI JUMILAWATY , MOEHAR MARAGHIY HARAHAP

2023
Ipteks Bagi Wilayah

Perubahan Penggunaan dan Tutupan Lahan sebagai Dasar Perencanaan dan Strategi Pengambilan Keputusan

MOEHAR MARAGHIY HARAHAP

2022

Interpretasi Alam Berbasis UAV pada Pepohonan untuk Mendukung Forest Science Techno Park di Kampus USU

MOEHAR MARAGHIY HARAHAP

2022
Ipteks

Interpretasi Alam Berbasis UAV pada Pepohonan untuk Mendukung Forest Science Techno Park di Kampus USU

MOEHAR MARAGHIY HARAHAP , ALFAN GUNAWAN AHMAD

Community Services

2024

MITIGASI DAN ADAPTASI BENCANA HIDROMETEOROLOGI DESA SIMANGULAMPE, KECAMATAN BAKTIRAJA KABUPATEN HUMBANG HASUNDUTAN

MOEHAR MARAGHIY HARAHAP , JENNY MARLINDAWANI PURBA , RIDWANTI BATUBARA , ODING AFFANDI

2024
Ipteks Bagi Masyarakat

PENGEMBANGAN REHABILITASI MANGROVE DENGAN POLA TANAM LAYANG-LAYANG DAN USAHA SILVOFISHERY PADA KELOMPOK TANI HUTAN ALAM SERDANG BAHARI, DESA RUGEMUK. KECAMATAN PANTAI LABU, DELI SERDANG

MOEHAR MARAGHIY HARAHAP , ODING AFFANDI , AHMAD MUHTADI , ETTI SARTINA SIREGAR , RASMI JECIKA ANDRIANA PURBA , RAVENA SAFITRI TAMPUBOLON , SITI HADIJAH , SALSABILA AFIFAH POHAN

2024

Penghijauan Lahan Kritis Sebagai Upaya Konservasi Tanah dan Air serta Mitigasi Bencana Alam di Desa Simangulampe, Kecamatan Baktiraja, Kabupaten Humbang Hasundutan

MOEHAR MARAGHIY HARAHAP

2024

Pendidikan Sadar Lingkungan untuk Anak-Anak sebagai Bentuk Kepedulian terhadap Hutan Mangrove

MOEHAR MARAGHIY HARAHAP , NOVITA ANGGRAINI