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Mr. Onrizal, Ph.D. is an associate professor of tropical forest ecology and biodiversity conservation at the Faculty of Forestry, Universitas Sumatera Utara (USU), with extensive experience in tropical forest ecology and biodiversity conservation more than 25 years, not only in Indonesia but also in South East Asia countries. He was involved in various activities of tropical forest ecology and biodiversity conservation studies funded by national and international bodies. He also serves several ecological restorations and community engagement in environmental services and habitat restoration. He has long experience working with governments, business organizations, communities, and NGOs at the local, national, and international levels. He has experience working with the Ministry of Environment and Forestry, various local governments, international organizations/bodies (such as USAID, JICA, KOIKA, and the World Bank), local communities, and NGOs (local, national, and international levels) in various locations, in Indonesia, Malaysia, and Myanmar. As an associate professor, he gives lectures and practices, including courses for ecology, restoration, and biodiversity conservation of tropical forests, including primatologists at undergraduate and graduate levels. He also supervises undergraduate and postgraduate students for their thesis at USU and several universities in Indonesia, Malaysia, and the UK.

Publications

2026

Koran/majalah populer/majalah umum

PP 27/2025: Saatnya Mangrove Punya “Gigi” di Tata Ruang dan Perizinan

ONRIZAL

2026

Jurnal internasional bereputasi

Analogous environments across the tropics have similar levels of tree species alpha diversity

ONRIZAL

2026

Koran/majalah populer/majalah umum

Hujan Ekstrem Bertemu Lereng Rapuh: Membaca Peristiwa Banjir Bandang-Kayu Sumatera

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2026

Koran/majalah populer/majalah umum

Hujan Ekstrem Bertemu Lereng Rapuh: Membaca Peristiwa Banjir Bandang-Kayu Sumatera

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2026

Koran/majalah populer/majalah umum

Fikih Transisi Energi Berkeadilan di Sumatera Utara: Dari Maqāṣid ke AksiNyata

ONRIZAL

2026

Koran/majalah populer/majalah umum

Bangun Kembali, Tapi Lebih Aman

ONRIZAL

2026

Koran/majalah populer/majalah umum

Pasca Banjir Bandang Sumatera: Kurangi Peluang Bencana Berulang dan Lindungi Habitat Satwa Kunci

ONRIZAL

2025

Prosiding seminar internasional

Germination of Amorphophallus gigas on various seed media

RIDAHATI RAMBEY , ONRIZAL

2025

Buku referensi

MANGROVE ECOSYSTEM MANAGEMENT: Guideline for ASEAN Strategy on Mangrove Ecosystem Management

ONRIZAL

2025

Buku referensi

Status Keanekaragaman Hayati Ekoregion Sumatra

Ruliyana Susanti , ONRIZAL

2025

Buku referensi

Atlas ektomikoriza angiospermae: ekosistem Hutan Batang Toru, Indonesia

Lutfi Hanafi , Mahmud Subagya , Syaiful Anwar , ONRIZAL , SRI LISTIYOWATI , NAMPIAH

2025

Buku referensi

Jenis-Jenis Flora Ekosistem Batang Toru Tambang Emas Martabe

Rio Ardi , Muhammad Iqbal Maulana , Mahmud Subagya , Syaiful Anwar , Teja Nugraha , Mutia Rahmawati , ONRIZAL

2024

Prosiding seminar nasional

PEMBERDAYAAN EKONOMI MASYARAKAT PESISIR YANG BERKELANJUTAN MELALUI PENANAMAN MANGROVE SECARA TEMATIK

ONRIZAL , KHOLIS ABDURACHIM AUDAH , ABDULLAH MUZI , TABLIGH PERMANA , Amalda Siti Anisa , Aditya Bhatara

2024

Makalah ilmiah

Effectiveness of Intensive Restoration in Sumatran Orangutan Habitat Recovery

ONRIZAL , Rio Ardi , Panut Hadisiswoyo , Fransisca Ariantiningasih

2023

Jurnal nasional terakreditasi

Kebiasaan Makanan Beberapa Jenis Ikan di Ekosistem Mangrove Lubuk Kertang, Sumatera Utara

DESRITA , ONRIZAL

2023

Jurnal nasional terakreditasi

Kebiasaan Makanan Beberapa Jenis Ikan di Ekosistem Mangrove Lubuk Kertang, Sumatera Utara

ONRIZAL

2023

Jurnal nasional terakreditasi

Nest Characteristics of the Introduced Orangutan at Jantho Orangutan Reintroduction Station, Aceh Besar

SUWARNO , ONRIZAL , Irmayuni

2023

Jurnal nasional terakreditasi

Nest Characteristics of the Introduced Orangutan at Jantho Orangutan Reintroduction Station, Aceh Besar

ONRIZAL

2023

Jurnal internasional bereputasi

MANGROVE FRUIT RIPENESS CLASSIFICATION USING DEEP CONVOLUTIONAL NEURAL NETWORK

ONRIZAL

2023

Prosiding seminar internasional

Forest Stand Composition of the Tapanuli Orangutan (*Pongo tapanuliensis*) Habitat in the Nature Reserves

ONRIZAL

2022

Jurnal nasional terakreditasi

The Diversity Species of Medicinal Plants in The Martelu Purba Nature Reserve, North Sumatra

ONRIZAL

2022

Prosiding seminar internasional

Ethnobotany of medicinal plants in Asam Jawa Village, South Labuhanbatu, North Sumatra, Indonesia

RIDAHATI RAMBEY , ONRIZAL

2022

Jurnal internasional bereputasi

Biodiversity of nekton in the Barumun Watershed, South Labuhanbatu District, North Sumatra, Indonesia

AHMAD MUHTADI , JULIA SYAHRIANI HASIBUAN , ONRIZAL , DESRITA , RIDAHATI RAMBEY , VINDY RILANI MANURUNG

2021

Prosiding seminar internasional

Estimation of aboveground biomass using allometric relationship between DBH and height for mixed mangrove forest in Setiu Wetland, Terengganu, Malaysia

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2021

Prosiding seminar internasional

Estimation of aboveground biomass using allometric relationship between DBH and height for mixed mangrove forest in Setiu Wetland, Terengganu, Malaysia

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2021

Prosiding seminar internasional

Total phenolic content, total flavonoid content and antioxidant activity of ethanolic extract of *Rafflesia kerri* Meijer, Lojing Highlands, Peninsular Malaysia

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2021

Prosiding seminar internasional

Total phenolic content, total flavonoid content and antioxidant activity of ethanolic extract of *Rafflesia kerri* Meijer, Lojing Highlands, Peninsular Malaysia

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2021

Jurnal nasional terakreditasi

Mitigation of Food Crisis and Increasing Productivity of Rice Fields for Communities Around the Taman Asoka Asri Housing Amid the Covid-19 Pandemic

SAMSURI , ONRIZAL , MUHDI , DIANA SOFIA HANAFIAH

2021

Jurnal internasional bereputasi

The historical range and drivers of decline of the Tapanuli orangutan

ONRIZAL

2020

Prosiding seminar internasional

Phenology of the bunga bangkai (*Amorphophallus gigas*) in North Padang Lawas, North Sumatra Province, Indonesia

ARIDA SUSILOWATI , ONRIZAL , AHMAD BAIQUNI RANGKUTI , RIDAHATI RAMBEY

2019

Prosiding seminar internasional

Study of agroforestry mindi planting pattern (*Melia dubia cavanilles*) in Selaawi Village, Garut District, West Java Province

ONRIZAL , ISKANDAR ZULKARNAEN SIREGAR , NURHENI WIJAYANTO , RIDAHATI RAMBEY

2008

Jurnal nasional terakreditasi

Studi Ekologi Hutan Mangrove di Pantai Timur Sumatera Utara

ONRIZAL

2026

Monograf

Jenis-jenis Mangrove di Teluk Bintuni, Papua

ONRIZAL

2026

Jurnal nasional terakreditasi

Nest characteristics of the introduced orangutan at Jantho Orangutan Reintroduction Station, Aceh Besar.

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Researches

2025

Riset Andalan Perguruan Tinggi dan Industri

Survei Flora Stasiun Riset di Areal Tambang Emas Martabe

ONRIZAL , Rio Ardi , Muhammad Iqbal Maulana

2024

Penelitian Unggulan Perguruan Tinggi

Tanaman mangrove sebagai model penemuan bahan obat berbasis keanekaragaman hayati Indonesia yang berkelanjutan

KHOLIS ABDURACHIM AUDAH , ONRIZAL

2024

Tanaman mangrove sebagai model penemuan bahan obat berbasis keanekaragaman hayati Indonesia yang berkelanjutan

KHOLIS ABDURACHIM AUDAH , ONRIZAL , ABDULLAH MUZI

2024

Studi Penilaian Jasa Lingkungan dalam Rangka Integrasi Jasa Lingkungan ke dalam Stok Karbon Berbasis Tipe Ekosistem di Suaka Margasatwa Rawa Singkil

ONRIZAL

2024

Review Dokumen Penataan Blok Suaka Margasatwa Rawa Singkil

ONRIZAL

2024

Analisis Vegetasi Tor Ulu Ala (TUA) di Areal Tambang Martabe

ONRIZAL

2024

Analisis Flora Baseline Area TSF East - TUA for Research Station Boundary

ONRIZAL

2023

Penilaian Karbon pada Kawasan Suaka Margasatwa Rawa Singkil untuk kegiatan carbon study proyek BCCPGLE TA 2023

ONRIZAL

2022

Penelitian Unggulan Perguruan Tinggi

Penilaian Produktivitas Rehabilitasi Mangrove dan Pengaruhnya pada Kesejahteraan Masyarakat Pesisir

ANANINGTYAS SEPTIA DARMARINI , ONRIZAL

2022

Riset Andalan Perguruan Tinggi dan Industri

Analisis Pohon Pakan Orangutan Tapanuli di Areal Tambang Emas Martabe

ONRIZAL

2022

Penelitian Fundamental

Penilaian Produktivitas Rehabilitasi Mangrove dan Pengaruhnya pada Kesejahteraan Masyarakat Pesisir

RIDAHATI RAMBEY , ONRIZAL

2016

Penelitian Dana Lokal Perguruan Tinggi

Peranan Restorasi Mangrove Pada Lahan Bekas Tambak Sebagai Penyimpan Karbon dan Pelestari Biodiversitas

NURDIN SULISTIYONO , ONRIZAL

2009

Penelitian Strategis Nasional

FUNGSI EKOLOGIS DAN PENGELOLAAN SUMBERDAYA LAHAN MANGROVE UNTUK MITIGASI CO2 DAN PELESTARIAN BIODIVERSITAS DI PESISIR TIMUR SUMATERA UTARA

PINDI PATANA , NURDIN SULISTIYONO , ONRIZAL

Community Services

2026

Energi Bersih Bukan Sekadar Opsi, Tapi Kewajiban Moral: Menakar Fikih Transisi Energi di Sumut

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2026

Memutus Rantai Bencana Banjir Bandang di Sumatra: Pelajaran dari Siklon Tropis Senyar

ONRIZAL

2025

Melihat Mangrove Sebagai Alternatif Ekonomi Berkelanjutan bagi Masyarakat

ONRIZAL

2025

Refleksi Akhir Tahun IESA

YUKI MAHARDHITO ADHITYA W S.Hut , ONRIZAL , SYLVIA PRISCA DELIMA

2025

Berdasarkan Jejak Genetik, Orangutan Tapanuli Adalah Jenis Tertua dari Genus Orangutan

ONRIZAL

2025

Refleksi Akhir Tahun IESA

YUKI MAHARDHITO ADHITYA W S.Hut , ONRIZAL , SYLVIA PRISCA DELIMA
