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Vindy Rilani Manurung has been a lecturer in the Aquatic Resource Management Study Program, Faculty of Agriculture, Universitas Sumatera Utara (USU) since 2020. She holds a Master's degree in Fisheries from Universitas Brawijaya Malang, specializing in Fish Biology and Population Genetics.

She is actively engaged in research and community service, focusing on fish stock dynamics, DNA barcoding, and the exploitation rate of sharks and rays in North Sumatra waters. She has received the DRTPM Community Service Grant from 2022 to 2024, including the successful implementation of mangrove nursery techniques adopted by POKMASWAS in Serdang Bedagai.

In addition to her research, she has mentored students in various national competitions, such as PPK ORMAWA, the Student Creativity Program (PKM), and APRI Youth. Her research and community service findings are integrated into her teaching materials for courses such as Fish Biology, Aquatic Biological Resources, Fish Population Genetics, and Maritime Sociology.

Publications

2024
Prosiding seminar internasional

Mapping potential areas offshore ecosystems blue swimming crab habitat management effort in labu beach waters, North Sumatera

VINDY RILANI MANURUNG , MASNIARI NASUTION , AZRO ATIQAH VONNA , HAFIZH MUWAFFAQ MARPAUNG , RISDO ELEVRI NAIBAHO , FITRI ADHIA

2024
Prosiding seminar internasional

The use of remote sensing methods to determine the water quality changes caused by the oil spill in Faekhuna'a, North Nias

VINDY RILANI MANURUNG , HASBI HUSAINI , HILAL IDAMA DALIMUNTHE , STEFANY FLORENCIA , MUHAMMAD FAHMI ABDILLAH , MACHMUL PRAYUDI HARAHAP , ABDULLAH HANIF , FERDIANSYAH MANURUNG , URMILA MINFI

2024
Prosiding seminar internasional

First Record of Snakehead Gudgeon (Ophiocara porocephala) in Sorong, West Papua, Indonesia

AGUNG SETIA ABADI , THOLIBAH MUJTAHIDAH , VINDY RILANI MANURUNG , DAMARIS PAYUNG

2024
Prosiding seminar internasional

Reproduction biology of mullet fish (Mugil dussumieri) found in Bandar Khalipah Waters Serdang Berdagai Regency, North Sumatera Province

KHAIRUNNISA , VINDY RILANI MANURUNG , MUHAMMAD AZIS YUDHIWINATA , IPANNA ENGGAR SUSETYA

2024
Jurnal internasional bereputasi

The first report of DNA barcoding of commercially important fish in Nias Islands, Indonesia

VINDY RILANI MANURUNG , KHAIRUNNISA , MUTIA RAMADHANIATY , IPANNA ENGGAR SUSETYA , FRIYUANITA LUBIS

2023
Jurnal nasional

Egg Laying Characteristics and Hatching Habitat of Lekang Turtle

(Lepidochelys olivacea) in Binasi Beach Turtle Conservation Area, Central Tapanuli North Sumatera Province

VINDY RILANI MANURUNG , ELINTA DEFANI BR BARUS , YEMIMA MARETTI , KRISNA DEWANTI SILALAHI , JESICA RAYANI SILABAN

2022
Jurnal internasional bereputasi

eDNA metabarcoding of decapod crustaceans across Indonesian seas has implications for biodiversity conservation and fisheries sustainability

VINDY RILANI MANURUNG

2022
Jurnal internasional bereputasi

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

VINDY RILANI MANURUNG

2021
Poster seminar internasional

Test of Chloramphenicol (CAP) on shrimp Vannamei (Litopenaeus vannamei) food products with elisa method

VINDY RILANI MANURUNG

2021
Prosiding seminar internasional

Enhalus acoroides coverage and density in Jago Jago Coastal, Central Tapanuli

VINDY RILANI MANURUNG

2021
Prosiding seminar internasional

Effect of testic brahman (Bos indicus) mixed with commercial feed and different time for genital of male and female in Tilapia (Oreochromis niloticus)

VINDY RILANI MANURUNG

2021
Jurnal internasional

Test of Chloramphenicol (CAP) on shrimp Vannamei (Litopenaeus vannamei) food products with elisa method

VINDY RILANI MANURUNG , ERI YUSNI

2021
Jurnal internasional bereputasi

Feeding habits of Tinfoil barb, Barbonymus schwenenfeldii in the Tasik River, South Labuhanbatu, North Sumatra, Indonesia

VINDY RILANI MANURUNG

2020
Jurnal nasional

The The spawning aplication of Koi (Cyprinus carpio) using semi-natural method in Desa Perbarakan, Deli Serdang Regency

VINDY RILANI MANURUNG

2017
Jurnal nasional terakreditasi

Growth Parameter and Fecundity of Fringe Scale Sardine (Sardinella fimbriata Cuvier Valenciennes) in Alas Strait, East Lombok, West Nusa Tenggara

VINDY RILANI MANURUNG

2013
Jurnal nasional

STUDI ASPEK REPRODUKSI IKAN BAUNG (Mystus nemurus Cuvier Valenciennes) DI SUNGAI BINGAI KOTA BINJAI PROVINSI SUMATERA UTARA

VINDY RILANI MANURUNG

2013
Jurnal nasional

Studi Aspek Reproduksi Ikan Baung (Mystus nemurus Cuvier Vallenciennes) Di Sungai Bingai Kota Binjai Provinsi Sumatera Utara

VINDY RILANI MANURUNG

2026
Poster seminar internasional

Identification of stingrays species and exploitation rate of blue-spotted maskray (Neotrygon kuhlii) landed at TPI tanjung beringin, Serdang Bedagai Regency, North SumateraÂ …

VINDY RILANI MANURUNG

2026
Jurnal nasional

Biologi Reproduksi Ikan Gulamah (Johnius trachycephalus, Bleeker 1851) Yang Didaratkan di Tempat Pelelangan Ikan (TPI) Tanjung Beringin, Kabupaten Serdang Bedagai, ProvinsiÂ …

VINDY RILANI MANURUNG

2026
Jurnal internasional bereputasi

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

VINDY RILANI MANURUNG

2026
Poster seminar internasional

Stock Assessment of Indian Mackerel (Rastrelliger kanagurta) Landed at Tanjung Beringin’s Auction Place Serdang Bedagai, Sumatera Utara

VINDY RILANI MANURUNG

2026
Jurnal nasional

Studi Pengamatan Pemijahan Metode Semi Alami Parameter Fekunditas, Pembuahan, Daya Tetas Telur dan Sintasan Larva Ikan Koi (Cyprinus carpio) di Desa Perbarakan, Deli SerdangÂ …

VINDY RILANI MANURUNG

Researches

2025
Penelitian Fundamental

Aplikasi Metabarcoding EDNA: Biomonitoring Genetik Dalam Mendukung Konservasi Dan Perikanan Berkelanjutan Di Pulau-Pulau Terluar Nias

VINDY RILANI MANURUNG , IPANNA ENGGAR SUSETYA

2025
Penelitian Fundamental

Aplikasi Metabarcoding EDNA: Biomonitoring Genetik Dalam Mendukung Konservasi Dan Perikanan Berkelanjutan Di Pulau-Pulau Terluar Nias

VINDY RILANI MANURUNG , KHAIRUNNISA , MUTIA RAMADHANIATY , IPANNA ENGGAR SUSETYA , MAY INDAH NURJANNAH

2023
Penelitian Kerjasama Antar Perguruan Tinggi

Eksplorasi Biodiversitas Sumberdaya Ikan di Kepulauan 3T (Terdepan, Terluar, Tertinggal) Perairan Nias dan Pulau-Pulau Kecil Sekitarnya

VINDY RILANI MANURUNG , KHAIRUNNISA , IPANNA ENGGAR SUSETYA , URMILA MINFI , DANIEL TAMBUNAN , HILAL IDAMA DALIMUNTHE , SHERINA MELODY HASIBUAN , JHON PAUL LUMBANTOBING

2021
Ipteks

Effect of testic brahman (Bos indicus) mixed with commercial feed and

different time for genital of male and female in Tilapia (Oreochromis niloticus)

VINDY RILANI MANURUNG , ERI YUSNI

Community Services

2022
Ipteks Bagi Masyarakat

Penerapan Rumpon Rangka Kapal: Alat Bantu Penangkapan Ikan Sebagai Lumbung Ikan Kepada Kelompok Nelayan Di Desa Pasar Sorkam Kabupaten Tapanuli Tengah Provinsi Sumatera Utara

NUR ULINA WARNISYAH SEBAYANG , VINDY RILANI MANURUNG , ZULHAM APANDY HARAHAP , IPANNA ENGGAR SUSETYA

2021
Ipteks Bagi Masyarakat

Edukasi Teknologi Fishfinder Alat Deteksi Ikan Kepada Nelayan Guna Meningkatkan Hasil Tangkapan Ikan Di Dusun Xi Desa Percut Kabupaten Deli Serdang Provinsi Sumatera Utara

VINDY RILANI MANURUNG , KHAIRUNNISA , RIZKY FEBRIANSYAH SIREGAR

Intellectual Property Rights

2026
Hasil penelitian/pemikiran yang tidak dipublikasikan

Dinamika Populasi Dan Komposisi Makanan Ikan Tembang (Sardinella Spp Cuvier Valenciennes) Di Selat Alas (Pangkalan Pendaratan Ikan Tanjung Luar, Lombok Timur)

VINDY RILANI MANURUNG