

## Edo Danilyan

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### Summary

Edo Danilyan is a graduate student at the Institut Teknologi Sepuluh Nopember, where he focuses on microbiology, biotechnology, and applied bioinformatics. Edo has a wealth of experience in project design and management, data analysis and interpretation, and the development of research tools. He is known for his innovative thinking and his ability to come up with practical solutions to complex problems. His colleagues describe him as a driven, resourceful person who remains positive and proactive even in the face of challenges.

### Education

#### UNIVERSITY OF SZCZECIN

Student Exchange, Biology.

Erasmus+ Scholarship

Szczecin, Poland

October 2022-February 2023

#### INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Masters, Biotechnology. GPA 4/4

Fastrack and Fresh Graduate Scholarship

Surabaya, Indonesia

2020-Present

#### CHULALONGKORN UNIVERSITY

Student Exchange, Biology. GPA 3.96/4

ASEAN & NON-ASEAN Scholarship

Bangkok, Thailand

January 2020 – May 2020

- Worked on my special project about biological control for *Michania mirachanta* in Saraburi, Thailand, under the supervision of Prof. Chatchawan Chaisuekul.
- Gained expertise in microbial infection and immunity, biodiversity, environmental science, and other key topics in biology.
- Conducted research and published papers on my work in these areas.

#### INSTITUT TEKNOLOGI SEPULUH NOPEMBER

Undergraduate, Biology. GPA 3.79/4

Bidikmisi On-Going Scholarship

Surabaya, Indonesia

2018-2022

#### SMAN 1 PRAJEKAN

High School Diploma, Natural Science.

Bondowoso, Indonesia

2014-2017

### Experience

#### GENERASI BIOLOGI INDONESIA FOUNDATION

Researcher (Intern)

Remote

October 2021 – February 2022

- Interned at the Molecular Biology and Genetics Division, gaining experience in bioinformatics analysis, including natural compound modelling and molecular docking.
- Focused on bioinformatics analysis, including natural compound modelling and molecular docking.

#### BRIN Republik Indonesia

Researcher (Student Intern)

Bogor, Indonesia

June 2021 – September 2021

- Worked on evaluating microalga growth medium and performed data visualization.
- Contributed to the evaluation of microalga growth medium and presented the findings through data visualization.
- Involved in evaluating microalga growth medium and using data visualization to present the results.
- Semi-finalist in the APEC YES Challenge 2021.

#### NATIONAL YANG MING UNIVERSITY

Researcher (Pre-internship Student)

Remote

June 2021 – September 2021

- Developed expertise in drug discovery, drug development, natural product exploration, and computational studies on molecular docking and molecular dynamics.
- Completed pre-internships and research projects in the area of natural product exploration.

## Edo Danilyan

### KUMAMOTO UNIVERSITY

Collaborative International Online Learning

Remote

October 2020 – November 2020

- Collaboration program between Institut Teknologi Sepuluh Nopember and Kumamoto University
- Collaborated with Kumamoto University on a program focused on biomass utilization as a renewable energy source.
- Developed a proposal for a microbe-based system to address the issue of food waste in Surabaya.
- Conducted data analysis to extract valuable insights from public waste data.
- Contributed to the development of innovative solutions for renewable energy and waste management.

### Leadership & Activities

#### KELOMPOK STUDI BURUNG LIAR PECUK

Staff of Multimedia Division

Surabaya, Indonesia

September 2019 – January 2021

- Provided ideas for monthly magazine.
- Provided bird photographs.

#### CHULALONGKORN UNIVERSITY DEBATING SOCIETY

Member

Bangkok, Thailand

January 2020 – May 2020

- Participated in national debating championship preparation.
- Participated in weekly training.

### Honor & Awards

- Erasmus+ Scholarship awardee
- Top 10 Finalist in Battle of Minds Competition by British American Tobacco
- 3<sup>rd</sup> Place in International Business Competition ICoBioS/OBC 2022
- Institut Teknologi Sepuluh Nopember Fresh Graduate Scholarship awardee
- Semi Finalist in APEC-YES Challenge 2021
- Institut Teknologi Sepuluh Nopember Fast Track Scholarship awardee
- Gold medalist and best impact paper award in Indonesia Inventor Days 2020
- Special award by MIICA on World Invention Competition and Exhibition (IYSA)
- Gold medalist on World Invention Competition and Exhibition (IYSA)
- ASEAN & NON-ASEAN Countries 2019 Scholarship awardee
- Bidikmisi On-Going Scholarship awardee

### Publication

- Nur Hidayatul Alami, Afan Hamzah, Bieby Voijant Tangahu, Idaa Warmadewanti, Ary Bachtiar Krishna Putra, Adi Setyo Purnomo, **Edo Danilyan**, Hellen Melati Putri, Citra Nesa Aqila, Aulia An Nisaa Dewi, Ayudia Pratiwi, Salsabilla Khairunisa Putri, Arif Luqman (2022). Microbiome profile of soil and rhizosphere plants growing in traditional oil mining land in Wonocolo, Bojonegoro, Indonesia. *International Journal of Phytoremediation*.
- Samboon, N. Ouying, P. Wannasrichan, W. Thoraneenitayan, N. Achawong, T. Supatniyapong, K. Weerasopon, K. Khayunkan, C. **Danilyan**, E. Hermanto, M. Kadkanla, S. 2020. In Vitro Point-of-Care Diagnostic Assays for SARS-CoV-2 (COVID-19). *Buddhachinaraj Medical Journal*. 37 (2).
- Luqman, Arif., Alami, N. H., **Danilyan, E.**, Azhari, B. A. Z., Dama, B. F. 2021. Bakteriologi Spesies Kosmopolit. Surabaya: *Departemen Biologi ITS*
- Iska Desmawati, Angga Gian, Rizki Widyaningsih, Zulfan Febriawan, Saniah Kusnatur, Ory Kurnia, Alwi Muhammad, Dimas Wildan and **Edo Danilyan**. 2021. Dry Season Bryophytes in Cagar Hotspring-Batu, East Java, Indonesia. *Ecology, Environment and Conservation Paper*. Vol:27, No.(90-93)

### Skills & Interests

**Technical:** R programming language, SPSS, Mega X, Seaview, PyMol, Markdown, Microsoft Office, Tableau, SQL  
**Language:** English (C1-Full Professional Proficiency)

**Edo Danilyan**

**Laboratory:** Thermal cycler (PCR and q-PCR), UV-Vis Spectrophotometry, Flow Cytometer, ISO 17025

**Interests:** Applied bioinformatics, web development, microbial ecology, biotechnology, data analysis and visualization