

## 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. GPA 4/4  
Erasmus+ Scholarship

Szczecin, Poland  
October 2022-February 2023

**INSTITUT TEKNOLOGI SEPULUH NOPEMBER**  
Masters, Biotechnology. GPA 4/4  
Fastrack and Fresh Graduate Scholarship

Surabaya, Indonesia  
2021-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

### Skills & Interests

**Technical:** R programming language, SPSS, Tableau, SQL, PyMol, Markdown, Microsoft Office

**Language:** English (C1-Full Professional Proficiency, TOEFL 569/677)

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

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

### 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 modeling and molecular docking.
- Focused on bioinformatics analysis, including natural compound modeling 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.

## KUMAMOTO UNIVERSITY

Remote

Collaborative International Online Learning

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

Surabaya, Indonesia

Staff of the Multimedia Division

September 2019 – January 2021

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

### CHULALONGKORN UNIVERSITY DEBATING SOCIETY

Bangkok, Thailand

Member

January 2020 – May 2020

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

## Honor & Awards

- Best presenter at International Conference of Science and Technology (ICOST) 2023
- 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 in World Invention Competition and Exhibition (IYSA)
- ASEAN & NON-ASEAN Countries 2019 Scholarship Awardee
- Bidikmisi On-Going Scholarship Awardee

## Publication

- Agata Poniewierska-Baran, Łukasz Zadroga, **Edo Danilyan**, Paulina Małkowska, Paulina Niedźwiedzka-Rystwej, Andrzej Pawlik (2023). MicroRNA as a Diagnostic Tool, Therapeutic Target and Potential Biomarker in Cutaneous Malignant Melanoma Detection—Narrative Review. *International Journal of Molecular Sciences*.
- 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. Thoraneenityan, 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 Cangar Hotspring-Batu, East Java, Indonesia. *Ecology, Environment and Conservation Paper*. Vol:27, No. (90-93)

## Portfolio

### Interactive Dashboard and Visualization – [\*Tetanus infection across the globe\*](#)

- Built an interactive dashboard for exploratory data analysis on tetanus infection using R programming language.
- The dashboard consists of several different pages to make it easier to navigate and understand.

### Data Analytics – [\*Personal Spotify playback analysis\*](#)

- Explored and visualized my Spotify playback activities using R ggplot2.

### Static Website – [\*Personal website of Edo Danilyan\*](#)

- Built a static website using Hugo framework and maintain it in VS code.
- Changed the visual of the template into desirable properties and features.