

Edo Danilyan

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Summary

Edo Danilyan is a fresh graduate from the Institut Teknologi Sepuluh Nopember, where he focuses on computational biology. 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 ability to develop 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 Szczecin, Poland
Student Exchange, Biology. GPA 4/4 October 2022-February 2023
Erasmus+ Scholarship

INSTITUT TEKNOLOGI SEPULUH NOPEMBER Surabaya, Indonesia
Masters, Biotechnology. GPA 4/4 2021-2023
Fastrack and Fresh Graduate Scholarship

CHULALONGKORN UNIVERSITY Bangkok, Thailand
Student Exchange, Biology. GPA 3.96/4 January 2020 – May 2020
ASEAN & NON-ASEAN Scholarship

- 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 critical topics in biology.
- Conducted research and published papers on my work in these areas.

INSTITUT TEKNOLOGI SEPULUH NOPEMBER Surabaya, Indonesia
Undergraduate, Biology. GPA 3.79/4 2018-2022
Bidikmisi On-Going Scholarship

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 qPCR), UV-Vis Spectrophotometry, Flow Cytometer, ISO 17025

Interests: Applied bioinformatics, remote sensing, biotechnology, conservation, data analytics, and visualization

Experience

GENERASI BIOLOGI INDONESIA FOUNDATION Remote
Researcher (Intern) 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 Bogor, Indonesia
Researcher (Student Intern) 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

Remote

Researcher (Pre-internship Student)

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

- The Most Outstanding Graduate in the Institut Teknologi Sepuluh Nopember (Master Degree)
- 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
- 3rd 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 the 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 – [Dashboard Collection](#)

- Built an interactive dashboard for exploratory data analysis on tetanus infection and Palmer penguins 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 and maintained it in VS code.
- Changed the visual of the template into desirable properties and features.

Reference

References will be available upon request.