

# ALBERT CHRISTIAN SOEWONGSONO

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[Personal Webpage](#) | [Community Webpage](#) | [Google Scholar](#) | [ORCID](#) | [LinkedIn](#)

## **Formal Education**

- 2023** PhD in Mathematical Sciences (GPA: N/A)  
*Mathematical models for the evolution of species*  
University of Tasmania, Hobart, TAS – Australia
- 2021** Graduate Certificate in Research (GPA: 6.5/7.0)  
University of Tasmania, Hobart, TAS – Australia
- 2018** Master of Mathematical Sciences (Advanced) (GPA: 6.3/7.0)  
*The most recent common ancestor of a randomly chosen sample in a Galton – Watson process*  
Australian National University, Canberra, ACT – Australia
- 2015** Bachelor of Mathematical Sciences (GPA: 4.0/4.0)  
*Teorema berbasis aksioma separasi dalam ruang topologi (separation axioms – based theorem in topological spaces)*  
Nusa Cendana University, Kupang, NTT – Indonesia

## **Non-Degree Education**

- Feb – Mar 2021** Summer School Student  
[Australian Mathematical Sciences Institute \(AMSI\)](#)  
University of Adelaide, Adelaide, SA – Australia
- Jan – Feb 2018** Summer School Student  
[Australian Mathematical Sciences Institute \(AMSI\)](#)  
Monash University, Clayton, VIC – Australia
- Sep – Oct 2016** Exchange Student  
[Young Southeast Asian Leaders Initiative \(YSEALI\) Academic Fellowship](#)  
Northern Illinois University, DeKalb, IL – USA
- May – Aug 2016** Visiting Student  
[LPDP Scholarship's](#) IELTS Class Program  
UIN Sunan Kalijaga, Yogyakarta, DIY – Indonesia

## **Research Interests**

My research centers around applications of mathematical methods in biology. I apply stochastic processes to study relationships between evolutionary processes and patterns. My biological interests include diversification models that uses species information, such as phenotype, age and historical biogeography; niche-based species evolution models, and epidemiology. My work primarily consists of designing mathematical models and deriving their theoretical properties, inferring parameters using biological and simulated datasets, and programming.

## **Coursework**

### **Graduate – level**

- Ordinary Differential Equations and Advanced Vector Calculus
- Scientific Computing
- Probability Modelling with Applications
- Analysis 1: Metric spaces and Applications
- Bioinformatics and Biological Modelling
- Advanced Mathematical Bioinformatics
- Mathematical Modelling of Infectious Diseases
- Stochastic Modelling
- Advanced Algebra 1: Groups, Rings, and Linear Algebra
- Advanced Algebra 2: Field extensions and Galois theory
- Number Theory and Cryptography
- Mathematics Research Project
- Low – Dimensional Topology
- Probability Models 3

### **Undergraduate – level**

Calculus and Vector Analysis	Real Analysis
Linear Algebra	Statistical Mathematics
Complex Variable	Numerical Method
Research Methodology	Regression Analysis
Analytic Geometry	Discrete Mathematics
Partial Differential Equations	Linear Programming
Operation Research	Sample Survey Method and Data Analysis
Mathematical Economics	Mathematical Modelling
Point-set Topology	Non-Parametric Statistical Methods
Field Work	Thesis

### **Technical Skills**

<b>Document Preparation</b>	<b>Slide Preparation</b>
Microsoft Word, LaTeX	Microsoft Powerpoint, LaTeX Beamer
<b>Statistical Software</b>	<b>Mathematical Software</b>
Microsoft Excel, SPSS, Minitab	Mathematica
<b>Programming Language</b>	<b>Other Skills</b>
R, Julia, MATLAB, RevBayes	Command-line interface, Bash, High – Performance Computing

### **Soft Skills and Language Proficiency**

I have experience in mentoring, hosting public events, and organizational management (details listed in this CV).

Bahasa Indonesia      Native (Fluent)

English

Professional working proficiency (IELTS Academic 7.5 - L:9.0, R:7.5, W:7.0, S:6.5)

## **Employment**

**2023 –**            [Postdoctoral Research Associate](#)  
Department of Biology  
Washington University, St. Louis, MO – USA

### **Job Description**

*Developing mathematical models for studying evolutionary processes and patterns in species diversity with biogeography, and epidemiology models with host movements.*

**2020 – 2022**   Mathematics Tutor  
Discipline of Mathematics  
University of Tasmania, Hobart, TAS – Australia

### **Job Description**

*Tutoring and marking assignments for undergraduate – level mathematical and statistical courses.*

**2020 – 2022**   Exam Scribe  
Disability Service  
University of Tasmania, Hobart, TAS – Australia

### **Job Description**

*Working with the university's disability service to assist students that require exam scribe.*

**2021**            Open Day - School Representative  
Discipline of Mathematics  
University of Tasmania, Hobart, TAS – Australia

### **Job Description**

*Working with the university to hold the university Open Day event as one of the representatives from School of Natural Sciences (Mathematics). Preparing booth for mathematics department and math games for kids.*

**2020 – 2021**   External Team Member  
Public Health Biomolecular Lab  
Local Government, Nusa Cendana University, Kupang, NTT – Indonesia

### **Job Description**

*Providing advice about sampling in pooled PCR test for COVID – 19 early detections in East Nusa Tenggara province. A joint collaboration between the local government, Forum Academia NTT, and Nusa Cendana University.*

**2020**            External Reviewer  
2<sup>nd</sup> ICRU International Conference on World Sustainable Development  
Nakhon Si Thammarat Rajabhat University, Thailand

### **Job Description**

*Invited as an external reviewer for abstracts submitted to the conference.*

**2019**            Contract Lecturer  
Department of Mathematical Sciences  
Nusa Cendana University, Kupang, NTT – Indonesia

## Job Description

*Teaching Mathematical Biology and English for Specific Purposes courses for Semester 1, 2019.*

**2018** Mathematics Tutor  
Mathematical Sciences Institute  
Australian National University, Canberra, ACT – Australia

## Job Description

*Tutoring and marking assignments and exams for first-year mathematical course.*

**2015 – 2016** Teaching Assistant  
Department of Mathematical Sciences  
Nusa Cendana University, Kupang, NTT – Indonesia

## Job Description

*Co-teaching first-year mathematics courses, marking assignments and exams.*

**2015** Paid Internship (Remote)  
JUARA Skincare  
Jakarta, Indonesia

## Job Description

*Promoting JUARA's cosmetic products using social media campaigns. Part of Young Leaders for Indonesia (YLI) Batch 7's programs.*

**2014 – 2015** Student Mentor  
UniBRIDGE Project  
Nusa Cendana University, Kupang, NTT – Indonesia

## Job Description

*Mentoring participating university students and providing monthly reports for University Building Relationship through Intercultural Dialogues and Growing Engagements (UniBRIDGE) project, sponsored by Australia's Department of Foreign Affairs and Trade.*

## Manuscripts – Published

- 2025** Soewongsono, A. C., Diao, J., Stark, T., Wilson, A. E., Holland, B. R., Liberles, D. A., & O'Reilly, M. M. (2025). Matrix-analytic methods for the evolution of species trees, gene trees, and their reconciliation. *Methodology and Computing in Applied Probability*, 27, 9. (DOI: <https://doi.org/10.1007/s11009-025-10135-z>)
- 2024** Soewongsono, A. C., & Landis, M. J. (2024). A diffusion-based approach for simulating forward-in-time state-dependent speciation and extinction dynamics. *Bulletin of Mathematical Biology*, 86, 101. (DOI: <https://doi.org/10.1007/s11538-024-01337-6>) ([SMB Research Highlight](#))
- 2023** Soewongsono, A.C. (2023). Mathematical models for the evolution of species. University of Tasmania. PhD Thesis (<https://doi.org/10.25959/26053510.v1>)
- 2022** Soewongsono, A. C., Holland, B. R., & O'Reilly, M. M. (2022). The Shape of Phylogenies Under Phase-Type Distributed Times to Speciation and Extinction. *Bulletin of Mathematical Biology*, 84(10), 118. (DOI: <https://doi.org/10.1007/s11538-022-01072-w>)

**Soewongsono, A. C., Holland, B. R., & O'Reilly, M. M. (2022).** Stochastic niche-based models for the evolution of species. In *MAM11 2022* (pp. 1-4). (*Conference Paper*)

**2019** Burden, C. J., & **Soewongsono, A. C. (2019).** Coalescence in the diffusion limit of a Bienaymé–Galton–Watson branching process. *Theoretical population biology*, 130, 50-59. (DOI: <https://doi.org/10.1016/j.tpb.2019.09.009>)

**2018** **Soewongsono, A.C. (2018).** The most recent common ancestor of a randomly chosen sample in a Galton-Watson process. Australian National University. Masters Thesis (DOI: <https://doi.org/10.25911/5d9efb00794b8>)

**2015** **Soewongsono, A. C., Ariyanto, A., & Jafaruddin, J. (2015).** Teorema berbasis aksioma separasi dalam ruang topologi. *Jurnal Matematika Integratif*, 11(2), 85-96. (DOI: <https://doi.org/10.24198/jmi.v11.n2.9420.85-96>)

**Soewongsono, A.C. (2015).** Kajian aksioma separasi dalam ruang topologi. Universitas Nusa Cendana. Honours thesis.

### **Manuscripts – Preprint**

**2024** **Soewongsono, A. C., Landis, M. J. (2024).** A diffusion – based approach for simulating forward – in – time state – dependent speciation and extinction dynamics (<https://arxiv.org/abs/2402.00246>)

**2023** **Soewongsono, A. C., Diao, J., Stark, T., Wilson, A. E., Holland, B. R., Liberles, D. A., & O'Reilly, M. M. (2023).** Matrix-analytic methods for the evolution of species trees, gene trees, and their reconciliation (<https://arxiv.org/abs/2309.06447>)

**Soewongsono, A.C., Holland, B.R., & O'Reilly, M. M. (2023).** Stochastic niche-based models for the evolution of species (<https://arxiv.org/abs/2309.02788>)

### **Manuscripts – In Preparations**

- Exploring relationships between rates and patterns generated under state-dependent speciation and extinction models. Joint work with Michael Landis.
- Inferring epidemiological parameters under infectious phylogeography model with visitor dynamics. Joint work with Ammon Thompson and Michael Landis.
- Phylogenetic estimation of density-dependent biogeographic rates using deep learning. Joint work with Michael Landis.
- Stochastic environmentally driven model for the evolution of species. Joint work with Barbara Holland and Małgorzata O'Reilly.

## **Academic Posters**

- 2025**      *Inferring epidemiological parameters under infectious phylogeography model with visitor dynamics*  
Evolution 2025  
Athens GA, USA
- 2024**      *A diffusion-based approach for simulating forward-in-time state-dependent speciation and extinction dynamics*  
Theory, Methods, and Applications of Quantitative Phylogenomics  
ICERM, Brown University, Providence RI, USA
- 2022**      *Stochastic niche-based models for the evolution of species*  
9<sup>th</sup> Heidelberg Laureate Forum  
Heidelberg, Baden – Württemberg, Germany
- 2021**      *The shape of phylogenies under Phase-Type distributed times to speciation and extinction*  
ANZIAM Annual Conference (Remote)  
Australia
- The shape of empirical phylogenies under Phase-Type distributed times to speciation model*  
AMSI BioInfoSummer 2021 (Hybrid conference)  
University of Adelaide, University of Melbourne, Curtin University, James Cook University, UNSW, Australia
- The shape of empirical phylogenies under Phase-Type distributed times to speciation model*  
ABACBS & Phylomania (Hybrid conference)  
Hobart, TAS – Australia
- The shape of empirical phylogenies under Phase-Type distributed times to speciation model*  
8<sup>th</sup> Heidelberg Laureate Forum (Remote)  
Hobart, TAS – Australia
- 2020**      *The shape of phylogenies under Phase-Type distributed times to speciation and extinction*  
AMSI BioInfoSummer 2020 (Remote)  
Australian National University, Canberra, ACT – Australia
- The shape of phylogenies under Phase-Type distributed times to speciation and extinction*  
Phylomania 2020: Undeterred and on the web!  
University of Tasmania, Hobart, TAS – Australia
- The shape of phylogenies under Phase-Type distributed times to speciation and extinction*  
Virtual Heidelberg Laureate Forum (Remote)  
Hobart, TAS – Australia

- 2019**      *Tree shape statistics of trees generated using Phase – Type distributed times to speciation*  
 AMSI BioInfoSummer 2019  
 University of Sydney, Sydney, NSW – Australia
- Tree shape statistics of trees generated using Phase – Type distributed times to speciation*  
 Phylomania 2019: It Goes to Eleven  
 University of Tasmania, Hobart, TAS – Australia

## **Presentations – Contributed**

- 2025**      Evolution meetings 2025 (Virtual) | Conference  
*Talk title*      : *Inferring epidemiological parameters under infectious phylogeography model with visitor dynamics*
- 2024**      3<sup>rd</sup> Joint Congress on Evolutionary Biology (Virtual) | Conference  
*Talk title*      : *A diffusion-based approach for simulating forward-in-time state-dependent speciation and extinction dynamics*  
*Recorded talk* : <https://youtu.be/yWkM95Zw1UM?si=kdrkhPRVJkdvFFRo>
- Living Earth Collaborative/Ecology and Evolutionary Biology Seminar Series | Seminar  
 Washington University in St. Louis, MO – USA  
*Talk title*      : [Mathematical perspectives on phylogenetic models of lineage diversification](https://youtu.be/sZKPgcI426U?si=m5XhkrIdTQLqTjH0)  
*Recorded talk* : <https://youtu.be/sZKPgcI426U?si=m5XhkrIdTQLqTjH0>
- 2023**      The 15<sup>th</sup> UTAS Theoretical Phylogenetics Meeting (Virtual) | Conference  
 University of Tasmania, Hobart, TAS – Australia  
*Talk title*      : *A diffusion – based approach for simulating forward – in – time state – dependent speciation and extinction dynamics*
- The 26<sup>th</sup> Annual New Zealand Phylogenomics Meeting | Student's talk  
 Hosted by University of Canterbury in Napier, New Zealand  
*Talk title*      : *Stochastic Niche – Based Models for the Evolution of Species*
- 2022**      The 14<sup>th</sup> UTAS Theoretical Phylogenetics Meeting | Student's talk  
 University of Tasmania, Hobart, TAS – Australia  
*Talk title*      : *Matrix – analytic methods (MAMs) for the evolution of species trees, gene trees, and their reconciliation (Part II)*
- The 9<sup>th</sup> Heidelberg Laureate Forum | Poster Flash and Presenter  
 Heidelberg University, Heidelberg, Baden – Württemberg, Germany  
*Talk title*      : *Stochastic Niche – Based Models for the Evolution of Species*

The 11<sup>th</sup> International Conference on Matrix – Analytic Method in Stochastic Models (Virtual) | Student's talk

*Talk title : Stochastic Niche – Based Models for the Evolution of Species*

ANZIAM Annual Conference (Virtual) | Student's talk

*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction*

**2021**

2021 AMSI BioInfoSummer Hybrid Symposium (Virtual) | Student's fast – forward talk

*Talk title : The Shape of Empirical Phylogenies under Phase – Type Distributed Times to Speciation Model (<https://bis.amsi.org.au/eposters/>)*

The 13<sup>th</sup> Phylomania – ABACBS Joint Conference | Student's talk

University of Tasmania, Hobart, TAS – Australia

*Talk title : The Shape of Empirical Phylogenies under Phase – Type Distributed Times to Speciation Model*

2021 ANZIAM Annual Conference (Virtual) | Student's talk

*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction*

**2020**

The 64<sup>th</sup> AustMS Annual Meeting (Virtual) | Student's talk

*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction*

2020 AMSI BioInfoSummer Symposium (Virtual) | Student's fast – forward talk

*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction (<https://bis.amsi.org.au/eposters/>)*

The 12<sup>th</sup> Phylomania (Virtual) | Student's talk

*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction*

Virtual Heidelberg Laureate Forum (Virtual) | Poster Flash and Presenter

*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction*

**2019**

2019 AMSI BioInfoSummer Symposium | Student's fast – forward talk

University of Sydney, Sydney, NSW – Australia

*Talk title : Tree Shape Statistics of Trees Generated Using Phase – Type Distributed Times to Speciation*



The 11<sup>th</sup> Phylomania | Student's talk

University of Tasmania, Hobart, TAS – Australia

*Talk title : Tree Shape Statistics of Trees Generated Using Phase – Type Distributed Times to Speciation*

## **Presentations – Invited**

- 2025** “Machine learning and new inference algorithms: expanding what is possible in evolutionary biology and phylogenetics analysis” SSB-sponsored symposium  
[Evolution 2025](#)  
*Talk title : Phylogenetic estimation of density-dependent biogeographic rates using deep learning*
- #OtotSendi seminar by [Van Deventer-Maas Indonesia](#)  
Online  
*Talk title : Living and working abroad as a postdoctoral researcher*
- 2024** Podcast “[Dari Nusa Tenggara ke Tenggara Australia](#)”  
Podcast Bebas Linear, Bandung Institute of Technology alumni
- Public Seminar by Mathematics Department | Seminar  
Nusa Cendana University, Kupang, NTT – Indonesia  
*Seminar title : Perspektif Matematika untuk Model Evolusi  
(Mathematical perspectives for evolutionary models)*
- 2022** Web Seminar by Komunitas Purist MA “LOL” (Virtual) | Webinar  
Bandung Institute of Technology  
*Talk title : Let's dive into math opportunities abroad*
- 2021** The 8<sup>th</sup> Heidelberg Laureate Forum | Poster presenter and fast-forward talk  
(Chosen as one of 20 presenters over 70 applicants)  
*Talk title : The Shape of Phylogenies under Phase – Type Distributed Times to Speciation and Extinction*
- Virtual Workshop Series: LPDP Sharing Session & IELTS Starter Pack | Facilitator  
Mata Garuda NTT, Kupang, NTT – Indonesia  
*Invited as facilitator for introducing IELTS and scholarship sharing session in the virtual workshop held by Mata Garuda NTT*
- Webinar Penelitian Matematika (Virtual) | Presenter  
KLIKPENELITI.ID & PT. Pusat Penelitian Indonesia, Indonesia  
*Talk title : Mathematical Models in Phylogenetics*
- Australia – Indonesia Youth Association (AIYA) Webinar | Presenter  
AIYA Jakarta Chapter & AIYA Eastern Indonesia Chapter, Indonesia  
*Invited as a speaker to share about LPDP scholarship*

## **Professional Reviews**

Journals	Evolution – International Journal of Organic Evolution, Bulletin of Mathematical Biology
Grant Proposals	US National Science Foundation – Division of Environmental Biology

## **Workshops**

2024	<a href="#">Current Methods and Open Problems in Mathematical and Statistical Phylogenetics</a>   Participant ICERM, Providence, RI – USA  <a href="#">Phylogenetic Biogeography Workshop</a>   Participant Modelling the Origin and Evolution of Hawaiian Plants Washington University, St. Louis, MO – USA
2023	<a href="#">StanCon 2023</a>   Participant Convention on Stan Programming and Bayesian Modelling Washington University, St. Louis, MO – USA
2021	<a href="#">The 11<sup>th</sup> Sydney Phylogenetics Workshop</a>   Participant University of Sydney, Sydney, NSW – Australia

## **Teaching**

2021 – 2022	University tutor, <b>KMA 154</b> , <a href="#">Mathematics 1B</a> , University of Tasmania University tutor, <b>KMA 252</b> , <a href="#">Calculus and Applications 2</a> , University of Tasmania
2020 – 2022	University tutor, <b>KMA 153</b> , <a href="#">Data Handling and Statistics</a> , University of Tasmania University tutor, <b>KME 272</b> , <a href="#">Engineering Mathematics 2B</a> , University of Tasmania
2020	University tutor, <b>KMA 155</b> , <a href="#">Computational Science and Discrete Mathematics 1</a> , University of Tasmania
2019	Contract lecturer, <b>Mathematical biology (3<sup>rd</sup> year math unit)</b> , Nusa Cendana University Contract lecturer, <b>English for Specific Purposes (1<sup>st</sup> year math unit)</b> , Nusa Cendana University

**2018** University tutor, **MATH 1013**, [Mathematics and Applications 1](#), Mathematical Sciences Institute, Australian National University

**2015 – 2016** Teaching Assistant, **various first-year math units**, Nusa Cendana University

### **Exam Scribe**

Working with the university's disability service to assist students that need exam scribe of the following subjects

2020 – 2022 KME 252: [Calculus and Applications 2](#)  
KME 272: [Engineering Mathematics 2B](#)  
KMA 153: [Data Handling and Statistics](#)  
ENG 332: [Signal and Linear Systems](#)  
ENG 333: [Power Systems 1](#)  
ENG 331: [Control Systems 1](#)  
ENG 431: [Power Systems 2](#)  
ENG 441: [Power System Dynamics and Stability](#)

### **Community Service**

[Society of Systematic Biologists](#)

**2025 –** General member

[Sigma Xi, the scientific research honor society](#)

**2025 –** Full membership

[WashU Postdoc Society](#)

**2023 –** Member

[National Postdoctoral Association](#)

**2023 –** Member

[AlumNode](#)

**2021 –** Student member

[Stochastic Modelling Meets Phylogenetics Research Group](#)

**2019 –** Group member

[UTas Theoretical Phylogenetics Research Group](#)

**2019 – 2023** Student member

[Young Leaders for Indonesia](#)

**2015 –** Alumni member

[Young Southeast Asian Leaders Initiative](#)

**2015 –** Alumni member

[Australian Mathematical Sciences Institute](#)

**2017 – 2023** Student member

[Australian Mathematical Society](#)

**2017 – 2023** Student member

[Australian and New Zealand Industrial and Applied Mathematics](#)

**2017 – 2023** Student member

[PPIA Tasmania – Overseas Indonesian Students Association](#)

**2021 – 2023** Student member

**2020 – 2021** Vice President

[Island Innovation Ambassador Program](#)

**2021** Island ambassador

[Mata Garuda NTT](#)

**2020 – 2021** Head of Communication and Informatics Division

[Global Changemakers](#)

**2020** Participant of the 2020 Virtual Youth Summit

[MITRA – Eastern Indonesian Students Foreign Relations Association](#)

**2016 –** Advisory board

**2015 – 2016** Community leader

**2013 – 2015** Head of outreach department

**2013** Co – founder

[AIYA Eastern Indonesia Chapter – Australia Indonesia Youth Association](#)

**2014** Co – founder

**2014 – 2015** Chapter treasurer

## **Awards and Invitations**

### **The Heidelberg Laureates Forum Foundation**

- 2022** Invited to attend [the 9<sup>th</sup> Heidelberg Laureate Forum](#)
- 2021** Invited to attend [the 8<sup>th</sup> Heidelberg Laureate Forum](#)
- 2020** Invited to attend [the virtual Heidelberg Laureate Forum](#)

### **Young Southeast Asian Leaders Initiative**

- 2019** Invited to attend [the 2019 YSEALI Summit](#) in Phuket, Thailand

### **Indonesia Endowment Fund for Education**

- 2016** Awarded by the head director of LPDP and PIC as one of the high-scoring participants on the final test during the pre-departure preparation (PK) for LPDP awardees batch 89

### **Australian National University**

- 2015** Invited to attend [the 2015 ANU Asia Pacific Week](#) hosted by ANU College of Asia & the Pacific

### **Nusa Cendana University**

- 2015** Awarded as the best graduate in the cohort (GPA 4.0 of 4.0)

Awarded as the fastest graduate in the cohort (completed bachelor's degree with research in 3.5 years)

Awarded as the youngest in the cohort (graduating at the age of 18)

2<sup>nd</sup> place at the 2015 English Debating Competition

- 2011** 4<sup>th</sup> place of the 2011 Chemistry Quiz contest for high school students held by the Chemistry department

### **Indonesian Ministry of Research, Technology and Higher Education**

- 2015** 1<sup>st</sup> winner of the 2015 high-achieving student competition (MAWAPRES) at faculty level

1<sup>st</sup> winner of the 2015 ON MIPA – PT at university level

- 2014** 1<sup>st</sup> winner of the 2014 high-achieving student competition (MAWAPRES) at faculty level

1<sup>st</sup> winner of the 2014 ON MIPA – PT at university level

## **PERTAMINA**

**2014** 1<sup>st</sup> winner in mathematics at the 2014 National Science Olympiad at provincial level

**2013** 1<sup>st</sup> winner in mathematics at the 2013 National Science Olympiad at provincial level

## **PGRI University**

**2015** 3<sup>rd</sup> place at the 2015 Regional University English Debating Competition (British Parliamentary style)

## **Pacific Countries Social and Economic Solidarity Association (PASIAD)**

**2008** Finalist at the 5<sup>th</sup> PASIAD National Mathematics Competition

Finalist at the 4<sup>th</sup> PASIAD National Mathematics Competition

## **Indonesian Ministry of Education and Cultures**

**2009** Top ten winner of KiHajar competition for high school students at provincial level

**2007** 5<sup>th</sup> winner of the 2007 Mathematics and Science Olympiad (MIPA) for primary school students at provincial

## **Scholarships and Grants**

### **ICERM**

**2024** Recipient of travel and accommodation supports to attend “[Current Methods and Open Problems in Mathematical and Statistical Phylogenetics](#)” workshop at ICERM

Recipient of travel and accommodation supports to attend “[From Phylogenetics to Phylogenomics: Mathematical and Statistical Challenges in the Era of Big Data](#)” workshop at ICERM

Recipient of travel and accommodation supports to attend “[Algorithmic Advances and Implementations Challenges: Developing Practical Tools for Phylogenetic Inference](#)” workshop at ICERM

### **NIH/NSF-EEID**

**2023** – Postdoctoral funded through NSF/NIH-EEID:

“[Phylogenetic modelling of viral transmission dynamics at the human wildlife interface in Uganda](#)” awarded to PI Michael Landis and other collaborators

## **StanCon**

**2023** Recipient of the StanCon grants to fully attend tutorials and conference of [StanCon 2023](#)

## **University of Tasmania**

**2019 – 2023** Recipient of the [Tasmania Graduate Research Scholarship](#) (TGRS) for PhD (tuition fees, living allowances and related expenditures)

**2022** Recipient of the 2022 CoSE HDR COVID-recovery mobility scheme

## **Young Southeast Asian Leaders Initiative (YSEALI)**

**2019** Received a travel grant to fully attend the [2019 YSEALI summit](#) in Phuket, Thailand

Granted a seed fund from the 2019 YSEALI summit for conducting social team project “Identify Identity” for underprivileged children in Sabah, Malaysia

**2016** Received full scholarship for a 5-week study at the Northern Illinois University as part of the [2016 YSEALI academic fellowship](#) – Fall program.

## **Australian Mathematical Sciences Institute**

**2022** Awarded [the 2022 AMSI-AustMS Heidelberg Laureate Forum Travel Fund](#)

**2021** Awarded [the registration scholarship](#) to participate at the 2021 AMSI BioInfoSummer symposium

Awarded a full scholarship to attend the [2021 AMSI Summer School](#) program

**2020** Awarded [the registration scholarship](#) to participate at the 2020 AMSI BioInfoSummer symposium

**2019** Awarded the travel and accommodation grant to attend the [2019 AMSI BioInfoSummer](#) symposium

**2018** Awarded the travel and accommodation grant to attend the 2018 AMSI BioInfoSummer symposium

Awarded the travel and accommodation grant to attend the 2018 AMSI Summer School program

## **Indonesian Ministry of Finance**

**2017 – 2018** Recipient of the [LPDP scholarship](#) for master's degree (tuition fees, living allowances and related expenditures)

## **Young Leaders for Indonesia Foundation**

**2015** Granted student to attend [the Young Leaders for Indonesia](#) program batch 7 (travel and accommodation expenses)

## **Indonesian Ministry of Research, Technology and Higher Education**

**2015** Recipient of the 2015 Academic Achievement Scholarship (PPA) (tuition fees for undergraduate)

**2014** Recipient of the 2014 Academic Achievement Scholarship (PPA) (tuition fees for undergraduate)

## **Van Deventer – Maas Stichting (VDMS) Foundation**

**2014 – 2015** Recipient of the [VDMS scholarship](#) for undergraduate

## **UniBRIDGE**

**2014** Granted student of the 2014 UniBRIDGE program for one-month visits to participating universities in Australia

## **Blog Writings**

This list contains all the articles I have contributed over the years through my communities' blogs. The primary aim for these articles is promote community empowerment, particularly in Indonesia, by sharing personal experience in various topics, ranging from youth opportunities to scholarships.

**2024** [\*“Mengenal program postdoctoral dan manfaatnya – Bagian I”\*](#)

[\*“Mengenal program postdoctoral dan manfaatnya – Bagian II”\*](#)

**2023** [\*“Berbagi Pengalaman Mendaftar Visa J-1 ke Amerika Serikat”\*](#)

**2022** [\*“9<sup>th</sup> Heidelberg Laureate Forum Report”\*](#)

**2020** [\*“Kilas Balik Pengalaman Mendaftar 8<sup>th</sup> Heidelberg Laureate Forum hingga Diundang”\*](#)

**2019** [\*“Mengenal Sistem Orientasi Kampus di Australia Bagi Mahasiswa Baru”\*](#)

[\*“Forum Diskusi Online Mahasiswa dan Dosen di Australia”\*](#)



*“Berbagi Pengalaman Sebagai Tutor di Universitas di Australia”*

*“Pengalaman Mendaftar Program PhD di Universitas Luar Negeri (Mencari Supervisor Hingga Melamar Beasiswa)”*

*“Kelas Daring IELTS NTT’s Webinar Series #2: How to get Research Internships – With Rebecca Latto, a research intern at Institute for Marine and Antarctic Studies (IMAS) University of Tasmania”*

*“Kelas Daring IELTS NTT’s Webinar Series #1: What Makes a Company Successful – With Tom and Albert from London”*

*“Notulensi Bincang-Bincang Tes SBK Beasiswa LPDP Bersama Kelas Daring IELTS NTT (Bagian I)”*

*“Notulensi Bincang-Bincang Tes SBK Beasiswa LPDP Bersama Kelas Daring IELTS NTT (Bagian II)”*

*“Kelas Daring IELTS NTT’s Webinar Series #4: Forestry, For Real School and Work in the Environmental Sector – With Caroline ‘Dea’ Tasirin, Yale Graduate in Forest Science and Lecturer at Sam Ratulangi University”*

*“Kelas Daring IELTS NTT’s Webinar Series #5: Remote Sensing & Environmental Monitoring – With Florina Stephanie Richard, Master of Science (Research) Candidate from Swinburne University of Technology”*

*“Notulensi Bincang-Bincang Tes Wawancara Beasiswa LPDP Bersama Kelas Daring IELTS NTT (Bagian I)”*

*“Notulensi Bincang-Bincang Tes Wawancara Beasiswa LPDP Bersama Kelas Daring IELTS NTT (Bagian II)”*

*“Notulensi Sesi Diskusi Daring Bersama Kelas Daring IELTS NTT “Persiapan, Ekspektasi, dan Realita Studi Pascasarjana oleh Penerima Beasiswa di 4 Benua - Bagian I”*

*“Notulensi Sesi Diskusi Daring Bersama Kelas Daring IELTS NTT “Persiapan, Ekspektasi, dan Realita Studi Pascasarjana oleh Penerima Beasiswa di 4 Benua - Bagian II”*

**2016**

*“Berbagi Pengalaman Mendapatkan Beasiswa LPDP (Bagian I)”*

*“Berbagi Pengalaman Mendapatkan Beasiswa LPDP (Bagian 2)”*

*“15 IELTS Tips from Albert”*

[“Academic IELTS – Reflecting on My Experience”](#)

[“A Brief Summary of My Journey with YSEALI Academic Fellowship – Fall Program 2016”](#)

[“Some Useful Tips on Applying for YSEALI Academic Fellowship Program”](#)

[“A Day of Youth Empowerment”](#)

[“Berbagi Pengalaman Mendapatkan Beasiswa LPDP”](#)

[“Tips untuk Melamar Beasiswa VDMS Bagi Mahasiswa Program Sarjana \(S1\) dan D3 di Indonesia”](#)

2015 [“A Story from Asia Pacific Week 2015”](#)

[“Asia Pacific Week”](#)

[“A Journey in Young Leaders for Indonesia Wave 7”](#)

[“Improving My Leadership Skills through the 2015 YLI Program”](#)

## **Volunteer Experiences**

- **[Deall Indonesian National Mentoring Festival \(IMF\) 2024](#) | Mentor (March 2024)**  
Mentoring and knowledge sharing to 11 mentees with topics around scholarship and university applications, job interview, and English-preparation test (IELTS)
- **[Deall Career Mentoring Festival \(DCMF\) 2022](#) | Mentor (Nov – Dec 2022)**  
Education and scholarship mentor at Indonesian’s largest jobs and mentoring platform.
- **[Hobart’s Festival of Bright Ideas](#) | UTas’ representation at maths booth (May 2022)**
- **University of Tasmania’s Open Day | Maths booth representation (Nov 2021)**
- **[UniBRIDGE’s Blog](#) | Content Writer (Sep 2016 – Present)**  
Writing some articles related to IELTS and scholarships for UniBRIDGE’s blog.
- **[Australia – Indonesia Youth Association’s Blog](#) | Content Writer (Feb 2015 – Present)**  
Contributing to the association’s blog by writing articles related to Indonesia and Australia.
- **[Kelas Daring IELTS NTT](#) | Founder (Jun 2019 – Jul 2021)**  
Founder of the initiative with a goal to provide a free online IELTS course for communities in East Nusa Tenggara province. [The initiative](#) is also accompanied by other activities, including webinar series about scholarships and youth opportunities as well as online sharing sessions.
- **PPIA ACT’s *Kakak Asuh* Program | Mentor (Feb – Jul 2018)**  
As a mentor for two newly commencing Indonesian students at the ANU adjusting with the university life.

- **PPI Australia's IMPACT Program | Ambassador (Mar – Apr 2018)**  
As an ambassador for the association's "Improving Papua and East Nusa Tenggara's Educations (IMPACT)" program through fund raising activities.
- **[SET4ANU Orientation Program](#) | Orientation Leader (Feb – Mar 2018)**  
Mentoring newly commencing students at the Australian National University to adjust with university's life and provide relevant assistances.
- **[MITRA Mentoring Project](#) | Initiator (Oct 2016 – Feb 2017)**  
Initiating and providing mentorships for youths from the eastern part of Indonesia about scholarship and youth-related opportunities.
- **[Indonesia Mengglobal](#) | Mentor (May – Aug 2016)**  
Participating as a mentor on scholarships and IELTS preparations through Indonesian Mengglobal Mentoring program.
- **International Education and Culture Fair 2016 | Committee Member (Feb 2016)**  
As a member of the committees for the 2016's International Education and Culture Fair held by Nusa Cendana University.
- **[CAUSINDY Kupang Forum](#) | Organiser (Sep 22<sup>nd</sup>, 2015)**  
Organising online conference for Kupang forum of the Conference of Australian and Indonesian Youth (CAUSINDY) with Australia Indonesia Youth Association (AIYA) Eastern Indonesia (Previously known AIYA East Nusa Tenggara).
- **Fieldwork in Teunbaun Village | Student Participant (Jul – Sep 2015)**  
A 3-month community service in Teunbaun village held by Nusa Cendana University. Helping to establish projects related to education, environment, and health.
- **MITRA Coastal Care | Project Initiator (May – June 2015)**  
A personal leadership project through Young Leaders for Indonesia (YLI) Batch 7. Promoting environmental education through real action activities for people living near a coastal area in Kupang.
- **Green School Movement Program | Volunteer (Feb 2015)**  
An initiative by *Yayasan Peduli Sesama* (SANLIMA) and the local forestry department and supported by MITRA, aimed to raise students' participation in environment by giving students opportunity to plant their own saplings, started at SMAN 3 Kupang.
- **International Education and Culture Fair 2015 | Committee Member (Feb 2015)**  
As a member of the committees for the 2015's International Education and Culture Fair held by Nusa Cendana University.
- **[BIPA Program](#) | Language Buddy (Jun – Jul 2014)**  
As a language partner for Australian students joining the 3-week intensive Bahasa Indonesia class at the Nusa Cendana University.
- **International Education and Culture Fair 2014 | Committee Member (Mar 2014)**  
As a member of the committees of the first-ever international education and culture fair in Kupang. Invited scholarship and education agents such as Australia Awards, Fulbright, NZAS, IDP Education etc. This fair was held by the international relation office of Nusa Cendana University.

## **Advisors**

### **PhD**

[Prof. Barbara R. Holland](#)

Discipline of Mathematics, School of Natural Sciences  
University of Tasmania

[Associate Prof. Małgorzata M. O'Reilly](#)

Discipline of Mathematics, School of Natural Sciences  
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### **Postdoctoral**

[Assistant Prof. Michael J. Landis](#)

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