



**Dr. Natasha Belandina Cornelin Abolla, S.P., M.Sc**

*Research Analyst | Environmental Science | Scientific Writing*

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## PROFILE

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Research Analyst with a Ph.D. in Environmental Science and 5+ years of experience of experience delivering evidence-based recommendations for UNDP, the Ministry of Environment and Forestry and Ministry of Agriculture. Skilled in research design, large-scale data validation, multi-stakeholder coordination, scientific article writing, and analytical support for policy reports, translating complex data into actionable recommendations. Passionate about climate resilience, productive conservation, and translating science into practical policies and community-led practices.

## PROFESSIONAL EXPERIENCE

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### Researcher & Field Coordinator

2026 – Present

*The Graduate School of Universitas Gadjah Mada – Adaptive Agricultural Reservoir in Dryland with Dry Climate Border*

- Led and coordinated 10 university students in field data collection and agricultural reservoir construction.
- Determined strategic agricultural reservoir construction placement along erosion rills for adaptive conservation system
- Analyzed pre- and post-intervention socio-economic profiles and farmer perceptions towards adoption of conservation technology
- Prepared scientific articles and created a 3-minute thesis video to communicate research outcomes effectively.
- Engaged local communities, including youth farmers, in co-designing context-specific agricultural solutions and conservation strategies.
- Collaborated with Universitas Nusa Cendana on cross-border partnership grant

### Agricultural Specialist

2026 – Present

*UNDP & Faculty of Forestry, Universitas Gadjah Mada – Development of Land Suitability and Environmental Carrying Capacity for Spatial Zonation at District Level (Lot 3: West Kalimantan Province with Focus on Sanggau Regency)*

- Assisted in land suitability zonation analysis for West Kalimantan's spatial planning
- Identified required improvements to overcome land-limiting classes through economic valuation of each recommendation
- Synthesized economic and environmental analyses to deliver evidence-based recommendations for sustainable land use

- Drafted academic manuscripts (Naskah akademik) and contributed to the formulation of regional regulation proposal (Raperda) for the agricultural sector

### **Researcher (Socioeconomic)**

**2025 – 2026**

*Ministry of Environment and Forestry (KLHK) & Research Center of Land Resources Management, UGM – Mangrove Ecosystem Inventory, Banten & Southwest Papua Province*

- Led socioeconomic field data collection and cross-site validation across two geographically distinct provinces.
- Processed over 300 datasets per province, including data cleaning, processing, visualization, and interpretation.
- Computed the Mangrove Dependency Index (MDI) and assessed ecosystem service values using structured evaluation frameworks
- Synthesized field findings with secondary literature to produce policy-oriented conservation recommendations.

### **Quality Control Analyst**

**2025 – 2026**

*Ministry of Agriculture of Indonesia & Research Center of Land Resources Management, UGM – Assessment of the Effectiveness of Wetland Optimization (Opla) on Increasing the Cropping Index (CI) in 12 Provinces*

- Performed quality control on over 1,000 datasets across 12 provinces for Ministry of Agriculture high-profile project
- Verified data integrity and factual accuracy of research outputs across 12 provinces, ensuring compliance with national standards.
- Cross-referenced field data against official benchmarks; flagged discrepancies and documented reasoning in structured reports.
- Developed an analytical visualization dashboard to synthesize and monitor data trends across all 12 provinces.
- Liaised between research teams and government officials to validate final deliverables before publication.
- Ensured data integrity to inform national agricultural policy decisions

### **Full-time Researcher**

**2025 – 2026**

*JOB Pertamina Medco E&P Tomori Sulawesi & Research Center of Land Resources Management, UGM - New Paddy Field Development and Agricultural Supervision in Luwuk, Banggai*

- Mentoring local farmers and overseeing sustainable farming practices for new paddy field development.
- Conducted comprehensive field surveys to assess land conditions and engaged local communities to co-design context-specific agricultural solutions.
- Analyzed field datasets to generate actionable insights for optimizing agricultural productivity and supporting evidence-based project recommendations.

**Full-time Researcher****2024 – 2026**

*Research Center of Land Resources Management, UGM – UGM Flagship Program: Community Farming Development Program for Food Security in Semanu, Gunungkidul*

- Designed and implemented productive conservation strategies for dryland farming in Gunungkidul
- Engaged local communities to co-design solutions improving agricultural productivity and resilience
- Analyzed complex datasets to generate actionable recommendations
- Compiled comprehensive final project report with findings and strategic recommendations
- Compiled scientific articles based on research findings for publication

**Full-time Technical Data Analyst****2024 – 2026**

*UNDP & Research Center of Land Resources Management, UGM – High Conservation Value Area & Targeted Scenario Analysis, Southwest Papua Province*

- Managed and analyzed over 1,000 data points across financial, economic, environmental, and gender equity domains
- Critically evaluated source reliability and flagged inconsistencies across cross-disciplinary datasets.
- Developed Targeted Scenario Analysis (TSA) models for key commodities: oil palm, sago, corn, sweet potato, and rice in Southwest Papua.
- Drafted policy brief and technical reports aligned with global sustainability standards (SDGs) and local development priorities, translating complex data into actionable recommendations for government and development partners.

**Researcher****2024**

*Dept. of Agriculture of Central Kalimantan & Research Center of Land Resources Management, UGM – Comprehensive Program for Survey, Investigation, and Design Optimization of Swamp Land in Kapuas Regency*

- Designed comprehensive questionnaire for field survey in Kapuas Regency
- Conducted comprehensive field surveys
- Processed over 500 datasets through cleaning, analysis, and interpretation
- Designed tailored interventions improving swamp rice farming productivity and sustainability
- Compiled final report and presented findings to provincial government officials supporting strategic program development

**Part-time Researcher****2021-2022**

*ACIAR (Project No. SLAM/2018/145) – Crop Health and Nutrient Management of Shallot-Chilli-Rice Cropping Systems in Coastal Indonesia*

- Investigated crop health and nutrient management of shallot-chilli-rice cropping systems in coastal Indonesia.
- Processed over 100 data points from field surveys.
- Modeled coastal environmental dynamics and investigated factors impacting crop health.
- Developed effective mitigation strategies for shallot diseases through field surveys and environmental analysis.

## EDUCATION

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| <b>Doctor of Philosophy   Major: Environmental Science</b><br><i>Universitas Gadjah Mada</i> | <b>2021 – 2025</b> |
| <b>Master of Science   Major: Soil Science</b><br><i>Universitas Gadjah Mada</i>             | <b>2016 – 2019</b> |
| <b>Bachelor of Agriculture   Major: Agrotechnology</b><br><i>Nusa Cendana University</i>     | <b>2012 – 2016</b> |

## PUBLICATIONS

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| <b>Dynamics of Coastal Weather Effects on Moler Disease in Indonesia Shallot Production</b><br><b>Abolla, N. B. C.</b> , Sartohadi, J., & Setiawan, M. A. <i>Agriculture and Natural Resources</i> , 59(2025), 1-8.                                                                                                               | <b>2025</b> |
| <b>Agricultural Land Optimization to Supports Sustainable Shallot Production on Fluvial and Structural Landforms</b><br><b>Abolla, N. B. C.</b> , Maulana, E., Setiawan, M. A., Haryono, E., Harini, R., Sartohadi, J., & Putri, R. A. P. <i>Ecological Engineering &amp; Environmental Technology</i> , 26(3), 183-194.          | <b>2025</b> |
| <b>Book of Abstracts: Research in the Transitional Landscape of the Sumbing Volcano and Kulonprogo Volcano 2013-2022</b><br>Sartohadi, J., Setiawan, M. A. S., Ngadisih., Purwaningsih, R., Noviyanto, A., Pratiwi, E. S., <b>Abolla, N. B. C.</b> , Turrodiyah, A., Mas'hum, H., & Mujilestari, T (Eds.). Transbulent Publisher. | <b>2022</b> |
| <b>Improvement of Soil Quality through Minimum Tillage for Sen Cropping Pattern in Indonesia</b><br><b>Abolla, N. B. C.</b> , Sartohadi, J., Utami, S. N. H., & Basuki, T. <i>Indian Journal of Agricultural Research</i> , 54(2), 205-210.                                                                                       | <b>2020</b> |

## SKILLS

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| <b>Research &amp; Design</b><br><i>Research design, Research methodology, Qualitative &amp; Quantitative analysis, Field survey</i> | <b>Data &amp; analysis tools</b><br><i>SPSS, RStudio, SQL, NVivo, Tableau, Looker, Collab</i> |
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**Writing & communication**

*Academic writing, technical reporting,  
science communication for non-specialist  
audiences*

**Languages**

*Indonesian (native), English (professional  
proficiency)*