

# *Binyin (Patrick) Di*

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Katherine  
Northern Territory  
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## ***SUMMARY***

A highly versatile and motivated agricultural professional in agriculture, an avid bibliophile specialising in tropical agriculture and farming systems with a passion for emerging technologies, and a track record in delivering research and extension activities on various topics, including Integrated Pest Management (IPM), Climate-Smart Agriculture (CSA) and Precision Agriculture (PA), having extensive research on crop phenotyping, field data collection and genomics specialising in data analytics and remote sensing by using multiple computer languages and software, rapport with academic, government and industry stakeholders and a career commitment for effective science communication.

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## ***AREAS OF EXPERTISE***

Farming Systems, Applied Ecology, Spatial Analysis, Data Analytics & Virtualisation

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## ***EDUCATION***

2017 - 2020	Bachelor of Agricultural Science (Honours) Plant Science Undergraduate degree The University of Queensland Supervisor: Prof Scott Chapman, PhD Thesis: <i>The yield prediction of lettuce at an early stage through imaging analysis by the Unmanned Aerial Vehicle (UAV)</i>
2020	Humboldt University of Berlin (Humboldt-Universität zu Berlin) Course: Human Rights Violations in Germany: Gender, Colonial Crimes & Transnational Corporations Coordinator: Karina Theurer, MA
2019	Gadjah Mada University (Universitas Gadjah Mada) Course: Tropical Agriculture Coordinator: Karen Harper, PhD
2014 - 2016	Victorian Certificate of Education Year 11 & 12

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## ***PUBLICATIONS***

**Di, B.**, Firn, J., Buckley, Y. M., Lomas, K., Pausas, J. G., & Smith, A. L. (2022). Impact of roadside burning on genetic diversity in a high-biomass invasive grass. *Evolutionary Applications*, 15, 790–803. <https://doi.org/10.1111/eva.13369>

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## ***RESEARCH***

Jan 2020- Nov 2021	<b>Casual Research Assistant</b> , The University of Queensland Supervisor: Prof Scott Chapman PhD, A/Prof Andries B Potgieter Location: Gatton, Queensland, Australia Projects entitled:
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- 1) *INVITA: A technology and analytics platform for improving variety selection* (Project ID: UOQ2003-011RTX)
- 2) *CropPhen: Remote mapping of grain crop type and phenology, Enabling analytics for grain crop monitoring applications - Crop classification and mapping of phenological characteristics* (Project ID: UOQ2002-010RTX)
- 3) *High throughput feature extraction from imagery to map spatial variability* (Project ID: UOQ2003-008RTX)

June 2020-  
Dec 2020

**Casual Research Assistant**, The University of Queensland  
Supervisors: Jack Christopher PhD, Yash Dang PhD  
Location: Toowoomba, Queensland, Australia  
Project entitled: *Subsoil constraint: Improving wheat yields on sodic soils* (Project ID: GRDC UA00159)

Mar 2020 -  
Sept 2020

**Winter Research Scholar**, The University of Queensland  
Supervisor: Annabel Smith PhD  
Location: Gatton, Queensland, Australia  
Project entitled: *Do invasive plants change fire regimes in Australia? The genomic responses of buffelgrass *Cenchrus ciliaris* L. to fire regimes in central Australia*

July 2019 -  
Nov 2019

**Undergraduate Researcher**  
Supervisors: Prof Steve Adkins PhD, Arslan Peerzada PhD  
Location: Gatton, Queensland, Australia  
Project entitled: *Seed Germination Ecology of African Lovegrass [*Eragrostis curvula* (Schrud.) Nees]*

## ***TEACHING ASSISTANTSHIPS***

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Semester 1, 2020 -  
Semester 1, 2021

**Casual Academic**, The University of Queensland  
Location: Gatton, Queensland, Australia  
*Course: AGRC1023 - Applied Mathematics and Statistics*

## ***PROFESSIONAL AFFILIATIONS AND SERVICES***

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### *Current Memberships:*

ACYPI - Australia China Young Professionals Initiative	2022
APEN - Australasia-Pacific Extension Network	2023
Society of Precision Agriculture Australia (SPAA)	2022
Soil Science Australia (SSA)	2023
The University of Queensland (UQ Future Leader)	2020
RAID - Researchers in Agriculture for International Development	2019

### *Academic Affiliations*

The University of Queensland	2020-2023
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## ***HONOURS AND AWARDS***

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2024	Delegate to the 14 <sup>th</sup> Australia-China Youth Dialogue (ACYD) in Adelaide
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- Awarded by Australia-China Youth Dialogue
- 2024      **Finalist of Northern Territory Young Achiever Award 2024**  
Awarded by Awards Australia
- 2023      **Crawford Fund Conference Scholarship**  
Awarded by Crawford Fund NT Committee
- 2020      **Employability Award**  
Awarded by Student Employability Centre, The University of Queensland
- 2020      **Winter Research Scholarship**  
Awarded by Student Employability Centre, The University of Queensland
- 2019      **Short Term Experience Travel Grant**  
Awarded by Student Employability Centre, The University of Queensland for supporting the short-term study experience at the Humboldt University of Berlin.

## ***EMPLOYMENT***

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- March 2024-  
Current      **Cropping Engagement and Adoption Officer**  
*The Northern Territory Government*  
Katherine, Northern Territory
- February 2023-  
February 2024      **Biosecurity Industry Liaison Officer**  
*The Northern Territory Farmers Association Inc.*  
Coolalinga, Northern Territory
- November 2021-  
October 2022      **Precision Agriculture Specialist**  
*Rocky River Ag Services*  
Crystal Brook, South Australia

## ***CERTIFICATES AND SKILLS***

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### ***Licences:***

- Current driver's licence
- CASA Remotely Piloted Aircraft (RPA) operator accreditation

### ***Applications:***

- Microsoft Office Suites: Word/Excel/PowerPoint/Sharepoint (Intranet)/Teams
- DJI Suites: GS Pro, Go Pro
- Flight Processing: Agisoft PhotoScan & Pix4D
- Programming: R, Python, Git, Portable Batch System
- Remote Sensing: ArcGIS & QGIS
- The Agricultural Production Systems Simulator (APSIM)

## ***REFEREES***

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References are available upon request.