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My goal is to help prevent and alleviate suffering for the sickest, poorest, and most vulnerable people through psychiatry and mental health research.

I have 4 years of experience in clinical psychiatry, where I treated patients. I was previously in stage 2 of the RANZCP training program and have completed the basic foundation training program. I have general medical registration with AHPRA. I took a detour into public health medicine and did my PhD in mental health services research. (awaiting results)

27 PubMed Publications (+700

Citations):

<https://pubmed.ncbi.nlm.nih.gov/?term=Dronavalli%2C+M&sort=date>

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## Experiences

### Medical Biostatistician

Western Sydney University - Since May 2022

- ▶ Perinatal Drug Exposure, prematurity and inhaled nitric oxide treatment, bronchopulmonary dysplasia, unsupervised clustering of neonatal ICU infants and short-term/long-term outcomes/cost to health services/education /, out-of-home care outcomes and service utilisation for babies and their mothers. Results of a population birth cohort 'Joining the Dots' of 1.8 million babies and their mothers in NSW between 2001 and 2020. Methods focused on causal mediation analysis.
- ▶ Supervising Clinicians and Honours Research Students as a Medical Statistician and co-supervisor. Two of my honours students were Gold Medallists in their seminar series.

### In-house Lead Biostatistician

Ingenu CRO - September 2022 to September 2023

For Phase 1 and Early Phase 2 Studies in neuroleptic/psychotropic/analgesic medication with a focus on psychedelics:

Statistical Analysis Plans

Data Analysis

Randomisation Schedule

Sample Size Calculations

Innovation in Data Related Planning and Tasks

Advising Sponsors in Sponsor Meetings

### Pharmacoepidemiologist

Therapeutic Goods Administration - September 2021 to April 2022

Approving and Regulating Medical Devices

### Senior Public Health Medicine Registrar in Communicable Diseases (Sydney COVID Lockdown)

Liverpool Public Health Unit - March 2021 to September 2021 - Australia

- ▶ Leading the external communications team for answering questions from the public regarding the Sydney COVID Lockdown
- ▶ Leading a team in the management of Adverse Effects following Immunisation for COVID
- ▶ Contributing to the containment of a COVID outbreak in Lockdown
- ▶ As an Investigator, designing and overseeing a real world implementation RCT of Co-designed Universal Micro-messaging Health Education Videos for Breastfeeding in Rural Mothers in South Africa.

### Research Fellow (Biostatistics)

National Drug and Alcohol Research Centre (WHO Collaborating Research Centre), UNSW -

January 2020 to December 2020 - Sydney

- ▶ Investigating the role of Social Disadvantage in Criminal Trajectories of those using Drugs as the index offence.
- ▶ Evaluation of an Aboriginal Cultural Competency Program for non-Aboriginal Drug Rehabs
- ▶ Supervising an Aboriginal PhD Student in research for a Continuous Quality Improvement of Aboriginal Residential Drug Rehabs
- ▶ RCT Evaluating Health Education Videos for Breastfeeding delivered by "Mentor Mothers" for Poor Mothers in South Africa. In collaboration with Stanford University and Heidelberg University

### Medical Biostatistician and Public Health Medicine Registrar

Liverpool Hospital - February 2019 to January 2020 - Sydney

- ▶ Assessing the effectiveness of oseltamivir prophylaxis in preventing Influenza outbreaks in Aged Care Facilities.
- ▶ Estimating Childhood Disability in Southwest Sydney and advocating a state-wide Child Disability Register
- ▶ Outbreak Control (eg Measles; Gastro in a school, child care or aged care facility; Influenza in an Aged Care Facility)
- ▶ Educating district aged care facility managers and nursing staff on managing and preventing the spread of influenza outbreaks in a one day teaching session
- ▶ Environmental Health Risk Assessments (PFAS, M12 noise and vibration, Establish Surveillance for Lead Notification with a high-risk Lead Battery Manufacturer, Mercury in Fish)
- ▶ Speeding up the management of Syphilis notification through automating repetitive data entry tasks using R and Adobe Optical Character Recognition for data extraction and processing.

- ▶ Teaching and upskilling staff in research methods and assisting the Medical Epidemiologist in reporting and surveillance work (Annual STI report | Published Meta-Analysis of Gonorrhoea prevalence and antibiotic resistance for studies in the past 30 years in Australia and New Zealand)
- ▶ Assessing the need for screening for Latent Tuberculosis Infection for refugee children under 2 years

## Psychiatry Registrar

North Shore Psychiatry Training Network - September 2016 to October 2018 - Sydney

- ▶ Worked in a high turn over Psychiatric Emergency Care Centre attached to an Emergency Department.
- ▶ Worked in Addiction Dual Diagnosis, Old Age Psychiatry and Child Psychiatry.
- ▶ Completed 3 year Education Program in Psychiatry at the Brain and Mind Research Institute
- ▶ Completed the Opioid Substitution Treatment Accreditation Course

## Pharmacoepidemiologist

Therapeutic Goods Administration - July 2016 to September 2016 - Canberra

Systematic Review, Meta Analysis and Safety Filter

## Medical Biostatistician

The Albion Centre - (WHO Collaborating Research Centre) - February 2016 to July 2016 - Sydney

- ▶ HIV research and gaining exposure to HIV medicine as well as training and enabling staff in research methods.
- ▶ HIV Complexity - Described the increasing burden of comorbidities in patients with HIV, where care needs a multi-disciplinary team approach. Used directed acyclic graphs.
- ▶ HIV Smoking Audit - Predicting which patients will benefit most from a smoking cessation intervention
- ▶ Completed the HIV Prescriber Course

## Medical Biostatistician

Western Australian Centre for Rural Health, University of Western Australia - November 2014 to January 2016 - Geraldton

- ▶ Systematic Review as the first author to assess measurement tools of general health and wellbeing.
- ▶ Commissioned review of Sexual Health Services in Western Australia by the Department of Health in a team.
- ▶ Designed and Delivered Seminars: 1. Understanding and Evaluating Advanced Quantitative Methods 2. Use of Social Media for Public Health
- ▶ Co-ordinating principal investigator on a complex GP Audit of patients with Acute Coronary Syndrome after discharge from hospital
- ▶ National Finalist for Gerry Murphy Prize at RACP Congress

## Psychiatry Registrar

Top End Mental Health Services - January 2014 to November 2014 - Darwin

- ▶ Worked in Psychiatry treating Aboriginal People with mental illness from remote areas.
- ▶ Took the history and mental state of patients and liaised with the multidisciplinary team. Prescribed medication, performed on-call duties, did ECT under supervision
- ▶ Taught Medical students about psychiatry regularly by teaching them psychiatric theory and interview skills

## Research Fellow (Pharmacoepidemiology)

NCEPH, ANU and TGA - July 2012 to December 2012

- ▶ Developed a Quantitative Data Analysis Plan for the 45 and Up study in the pharmacoepidemiology field.
- ▶ Investigated a New Indication for a cholesterol-lowering agent.

## Psychiatry Registrar

Cumberland Hospital - January 2012 to June 2012

- ▶ Worked empathically under pressure, Treated quite severe mental illness
- ▶ Caring for mentally ill patients under consultant psychiatrist supervision
  - o Elicit History and Mental State to adjust medication.
  - o Communicate with the multidisciplinary team and family+carers of the patient.
  - o Clozapine and Outpatient Clinics

## Medical Internship

Westmead Hospital - January 2011 to January 2012

# Education

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## Psychiatry Training

Royal Australian and New Zealand College of Psychiatrists

Since 2014

Went upto Stage 2.

Completed the Foundational Basic Training in Psychiatry at Brain and Mind Research Centre

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## PhD - Mental Health Services and Social Disadvantage

Western Sydney University

October 2022 to September 2025

Evaluating Mental Health Services for the Socially Disadvantaged including constructing Simulation Models in AnyLogic

Evaluating the effectiveness of GP care plans in reducing metabolic risk for patients with serious mental illness.

Predictors and outcomes of change in socio-economic position over time and ensuing patterns of illness and receiving treatment.

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## Training in Public Health Medicine

Australian Faculty of Public Health Medicine

Rotations: Rural and Indigenous Health, HIV, Public Health Unit (Communicable Disease and Environmental Health), Childhood Disability, Addiction and Pharmacoeconomics (TGA)

Coursework: Environmental Health Risk Assessments | Framing Indigenous Health | Health Promotion | Health Policy | Epidemiology and Control of Communicable Disease | Qualitative Research Methods | Environmental Health Risk Assessments | Introduction to teaching and supervision | Grant Writing | PRINCE 2 : Foundations and Practitioners | Good Clinical Practice (GCP) Certified as of 2022 Oct

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## MPhil in Cancer Epidemiology

University of Sydney, NHMRC Clinical Trial Centre

June 2007 to September 2011

Risk and Treatment Factors of Squamous Cell Carcinoma of the Lip

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## Masters of Biostatistics

Monash University

January 2007 to June 2008

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## MBBS BMedSc

University of Melbourne

January 2002 to December 2010

Honours Thesis: A Pharmacological mechanism for the Clinical Benefits of Angiotensin Converting Enzyme

Inhibitors: Analyses of randomised controlled trials

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## High School Certificate

Fort St Selective High School

2001

Taught me broad content and diverse perspectives in a multicultural environment and how to LEARN and THINK.

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