

# AIDEEN KILLEEN

## CONTACT



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## KEY HIGHLIGHTS

- PhD in Molecular Biology
- Clinical Scientist experienced and published in IVD Validation & Verification and Accreditation
- Expertise in Machine Learning and OMICs analysis

## PERSONAL INFORMATION

Nationality: Irish Australian Permanent Resident

Clinical Scientist with ~15 years' experience spanning Research, Pathology, Academia, Regulatory Compliance, and Accreditation. Expertise in Bioinformatics, Statistics, Machine Learning, and OMICs analysis. Published in multiple Statistical Programming Software applications and cutting-edge methodologies.

## PROFESSIONAL EXPERIENCE

October 2024 - Current

**Research Fellow** *University of Limerick*, Limerick, Ireland

- Creating multimodal machine learning models for cancer triage and detection combining radiological imaging with clinical data
- Designing explainable AI pre-processing pipelines for tabular and imaging data
- Supervising MSc student dissertation projects in Health Informatics and mentoring MSc AI interns
- Collaborating with clinical and academic stakeholders to integrate AI methodologies into research workflows

January 2022 - September 2024

**Technical Assessor** *National Association of Testing Authorities*, Australia

- Led technical audits of pathology laboratories
- Provided specialist data analysis for novel in-house IVD validations
- Evaluated pathology services for accreditation and compliance

November 2023 - April 2024

**Clinical Project Manager** *Franklin.ai*, Sydney, New South Wales, Australia

- Established clinical study protocols, monitoring plans, and statistical analysis plans
- Executed development of research experiments adhering to pathology regulatory standards
- Reviewed statistical analysis code, providing recommendations on best practices

September 2023 - February 2024

**Statistical Consultant** *Fertility Society of Australia*, Australia

- Led stakeholder analysis and reporting for the annual Code of Practice review
- Assisted in state health investigation report and legislative inquiry
- Developed statistical methodologies for fertility research and policy evaluation

October 2022 - September 2023

**Manager, Clinical Excellence Division** *Department of Health*, Perth, Western Australia, Australia

- Monitored, regulated, and licensed assisted reproductive technology (ART) units
- Led responses to legislative, clinical, and public complaints
- Provided regulatory oversight to ensure ART service providers met safety and quality standards

April 2022 - September 2022

**Biostatistician** *Proteomics International*, Perth, Western Australia, Australia

- Developed statistical models for novel diagnostic disease biomarkers
- Designed and implemented data pipelines for large-scale proteomic datasets
- Ensured quality control and adherence to clinical research protocols

November 2019 - January 2022

**Scientist in Charge** *The Royal Women's Hospital & The Royal Children's Hospital*, Melbourne, Victoria, Australia

- Managed a team delivering reproductive services across four major hospitals
- Developed and validated multiple reproductive medicine IVD assays
- Led research projects identifying biomarkers and novel methodologies

September 2017 - December 2020

**Tutor - Specialist Clinician** *Manchester Metropolitan University*, Manchester, United Kingdom

- Delivered lectures for the NHS Scientist Training Programme (STP) MSc in Clinical Reproductive Science and Genomics
- Designed academic curriculum and lesson plans
- Utilised distance learning technologies for remote teaching

July 2015 - August 2019

**Head of Department** *The Doctors Laboratory*, London, United Kingdom

- Oversaw operations of four reproductive science laboratories catering to approximately 20,000 patients annually
- Led research, validation, and accreditation of novel diagnostics
- Implemented process optimisation to enhance efficiency

June 2013 - July 2015

**Senior Scientist** *The Doctors Laboratory*, London, United Kingdom

- Managed a reproductive science laboratory serving ~5,000 patients per year
- Led complex research projects and troubleshooting efforts
- Trained new staff in technical expertise and compliance

May 2012 - May 2013

**Scientist** *Merrion Fertility Clinic*, Dublin, Ireland

- Conducted manual laboratory testing for biological threshold analyses
- Worked in a fast-paced clinical environment ensuring high-quality standards
- Participated in technology research for improved diagnostics

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## EDUCATION

08/2019

**Master of Clinical Science**

**Academy for Healthcare Science**, United Kingdom

05/2012

**Ph.D. Molecular Biology**

**University College Dublin**, Ireland

05/2008

**Bachelor of Science (Hons) Human Physiology**

**University College Galway**, Ireland