

BENJAMIN MORRIS

PERSONAL DATA

EMAIL: MORRISBENJAMIN00@GMAIL.COM AND MMBAJM@LEEDS.AC.UK
CITIZENSHIP: BRITISH AND AUSTRALIAN

EXPERIENCE

2023/24	DEMONSTRATOR AT UNIVERSITY OF LEEDS, LEEDS LED TUTORIALS FOR MATH1050 (CALCULUS AND MATHEMATICAL ANALYSIS), MATH1055 (NUMBERS AND VECTORS), AND MATH2017 (REAL ANALYSIS).
SEMESTER 1, 2022	DEMONSTRATOR AT SDU – ANU JOINT SCIENCE COLLEGE, CANBERRA LED WORKSHOPS FOR ODES AND MATHEMATICAL ABSTRACTION I (INTRODUCTORY LINEAR ALGEBRA AND REAL ANALYSIS).
SEMESTER 1, 2022	DEMONSTRATOR AT ANU SCHOOL OF MATHEMATICS, CANBERRA LED WORKSHOPS FOR MATH2305 APPLIED MATHEMATICS I (VECTOR CALCULUS AND ODES).
MAR 2021 - NOV 2021	PRIVATE TUTOR, CANBERRA TUTORED FIRST YEAR MATHS STUDENTS IN PURE MATHEMATICS AT ANU.
NOV 2019 - JAN 2020	SUMMER RESEARCH SCHOLAR AT ANU RESEARCH SCHOOL OF PHYSICS AND ENGINEERING, CANBERRA STUDIED QUANTUM INTEGRABILITY AND PERFORMED LARGE MATRIX COMPUTATIONS IN MATHEMATICA TO VERIFY EXPRESSIONS FOR Q -OPERATORS RELATED TO THE XXZ SPIN CHAIN AT ARBITRARY SPIN.
MAR 2019 - NOV 2019	ACADEMIC MENTOR AT URSULA HALL ACADEMIC TEAM, CANBERRA MENTORED FIRST YEAR STUDENTS AT URSULA HALL IN MATHEMATICS, CHEMISTRY AND PHYSICS.
FEB 2019 - NOV 2019	PAL MENTOR AT ANU RESEARCH SCHOOL OF CHEMISTRY, CANBERRA MENTORED FIRST YEAR CHEMISTRY STUDENTS AT ANU. EXPERIENCE IN TUTORING GROUPS AND INDIVIDUALS OF DIFFERENT ABILITIES AND STUDENTS WHOSE FIRST LANGUAGE IS NOT ENGLISH.

EDUCATION

OCT 2022 - CURRENT	DOCTORATE OF PHILOSOPHY IN MATHEMATICS, University of Leeds, QUANTUM LATTICE MODELS AND ASSOCIATED QUANTUM ALGEBRAS, SUPERVISORS: PROF. PAUL MARTIN AND PROF. FRANK NIJHOFF
DECEMBER 2021	BACHELOR OF PHILOSOPHY (HONOURS) - SCIENCE, Australian National University, CANBERRA FIRST CLASS HONOURS IN MATHEMATICS THESIS: "TOWARDS A FACTORISED SOLUTION OF THE YANG-BAXTER EQUATION WITH $U_q(\mathfrak{sl}_4)$ SYMMETRY" (92/100) SUPERVISOR: ASSOC. PROF. VLADIMIR MANGAZEEV COSUPERVISOR: PROF. MURRAY BATCHELOR GPA: 6.941/7.000
DECEMBER 2017	QUEENSLAND CERTIFICATE OF EDUCATION CERTIFICATE OF ACADEMIC COMMENDATION Brisbane Boys' College, BRISBANE OVERALL POSITION: 1

SCHOLARSHIPS AND CERTIFICATES

APRIL 2022	EPSRC DOCTORAL TRAINING PARTNERSHIP STUDENTSHIP
JULY 2020	CHANCELLOR'S LETTER OF COMMENDATION (AWARDED FOR MAINTAINING A GPA OF 7.0 IN 2019)
JAN 2019	CHEMISTRY AMBASSADOR PROGRAM, UK (\$1500 AUD)
JAN 2018	PHB SCIENCE SCHOLARSHIP (\$6500 AUD)
DEC 2017	QUEENSLAND CERTIFICATE OF EDUCATION - CERTIFICATE OF ACADEMIC COMMENDATION
DEC 2017	TRINITY COLLEGE LONDON GRADE 6 SINGING - MERIT
AUG 2017	AUSTRALIAN MATHEMATICS COMPETITION - HIGH DISTINCTION
DEC 2016	TRINITY COLLEGE LONDON GRADE 4 SINGING - MERIT
AUG 2016	AUSTRALIAN MATHEMATICS COMPETITION - HIGH DISTINCTION
SEP 2011	AUSTRALASIAN PROBLEM SOLVING MATHEMATICAL OLYMPIADS JUNIOR DIVISION - TOP 25% ACHEIVER AND HIGHEST INDIVIDUAL SCORE

LANGUAGES

ENGLISH: NATIVE SPEAKER

COMPUTER SKILLS

BASIC KNOWLEDGE: PYTHON, MATLAB, \LaTeX
INTERMEDIATE KNOWLEDGE: EXCEL, MATHEMATICA

PRESENTATIONS

- JUNE 2023 SIDE 14.2 (SYMMETRIES AND INTEGRABILITY OF DIFFERENCE EQUATIONS), WARSAW.
- FEB 2023 APPLICATIONS OF HECKE AND RELATED ALGEBRAS:
REPRESENTATIONS, INTEGRABILITY AND PHYSICS, LES HOUCHES.
- DEC 2021 INTEGRABLE SYSTEMS AND MATHEMATICAL PHYSICS SPECIAL SESSION
OF THE 65TH ANNUAL MEETING OF THE AUSTRALIAN MATHEMATICAL SOCIETY.

INTERESTS AND ACTIVITIES

BAGPIPING:

- B-GRADE QUEENSLAND SOLO STATE CHAMPION 2016 AND 2017.
- LEADERSHIP ROLES IN MY HIGH SCHOOL BAND (BRISBANE BOYS' COLLEGE PIPE BAND) FOR 3 YEARS (2015-2017). THIS INVOLVED MENTORING JUNIOR PLAYERS AND LEADING THE BAND AT GIGS AND COMPETITIONS INCLUDING THE 2014 AND 2016 EUROPEAN PIPE BAND CHAMPIONSHIPS IN FORRES, UK.
- SOLO PIPING AT FUNERALS, WEDDINGS, AND STATE FUNCTIONS INCLUDING COMMERATIVE DAWN CEREMONIES.
- COMPETED INTERNATIONALLY WITH NEW ZEALAND POLICE PIPE BAND.
- WON INTERNATIONAL TUNE WRITING COMPETITIONS AND HAVE MUSIC PLAYED BY WORLD LEADING BANDS.

SINGING:

- 5 YEARS OF EXPERIENCE SINGING IN SCHOOL, RESIDENCE HALL, AND PROFESSIONAL CHOIRS.
- GRADE 4 AND 6 SINGING EXAMS.

SPORT:

- PLAYED FOOTBALL (SOCCER) SOCIALLY THROUGHOUT HIGH SCHOOL AND UNI.
- RECENTLY DEVELOPED AN INTEREST IN POWERLIFTING.