

AIDIN JALILZADEH (AFHEA)

Mathematics Educator — Applied Mathematician

✉ aidin.jalilzadeh@gmail.com ☎ (+86) 134 2922 4616 **in** LinkedIn Profile

📍 Ningbo, China — Open to International School Positions

Professional Summary

PGCE-qualified Mathematics Educator (PhD Applied Mathematics) with 20 years of experience across international curricula (IB, AP, A-Levels, Cambridge). Demonstrated record of raising attainment through clear instruction, targeted feedback, and well-designed assessments in diverse, multilingual classrooms.

Core Competencies

- AP/IB/A-Level Mathematics
- Curriculum Development
- Python/Programming in Education
- Blended Learning & EdTech

Teaching Experience

Full-Time Mathematics Teacher

Oct 2022–Jul 2025

Ningbo Barstow School (Hanvos-Kent Affiliate of KL Education), Ningbo, China

- Teach Pre-Calculus to Year 11 students and AP Pre-Calculus to Years 10-11 in the Advanced Placement program
- Manage over 100 students across multiple sections, preparing weekly practice materials, assessments, and providing individualized support

Online Mathematics Instructor

Jan 2024–Jul 2025

St Mary's Online Academy (Knowledge Link USA), Remote

- Teach Calculus AB and BC to international students preparing for college admission

Preliminary Year Tutor in Mathematics & Computer Science

2019–2022

University of Nottingham Ningbo China (UNNC), Ningbo, China

- Developed and convened two new modules for Computer Science majors: *Introduction to Algorithms* and *Introduction to Mathematical Software Programming*

Online Mathematics Teacher

2007–2016

St Mary's Online Academy (SMOA) / Knowledge Link Education, Remote

- Delivered AP Pre-Calculus, Calculus AB/BC, Statistics, and Computer Science to international cohorts.

Teaching Assistant / Summer School Lecturer **2012–2016**

University of Otago, Dunedin, New Zealand

- Taught courses including Algebra, Calculus, Probability & Statistics, Differential Equations, Multivariate Calculus, and Numerical Analysis

Tutor (Course TA) **2006–2015**

Department of Mathematics & Statistics, University of Otago, Dunedin, New Zealand

- Tutored undergraduate mathematics and statistics across Years 1–4 (calculus, linear algebra, analysis, differential equations, numerical methods).

Specialized Tutoring & Outreach **2011–2015**

University of Otago, Dunedin, New Zealand

- Provided one-to-one academic support through the Disability Office; received **Best Tutor Award (2013)**.

Research Background

- **Postdoctoral Fellow (Modeller)** — Manaaki Whenua, Dunedin, NZ (2017–2018): Modelled gene drive scenarios for pest eradication (Predator-Free 2050 initiative)

Education

PhD Applied Mathematics **2010–2014**

University of Otago, Dunedin, New Zealand

Thesis: *Modelling chemotaxis in tissue inflammatory response*

Supervisors: Dr Boris Baeumer, Dr Josie Athens, Prof Jorg Frauendiener

Part-time after January 2013 due to employment

MSc Applied Mathematics with Distinction **2007–2009**

University of Otago, Dunedin, New Zealand

Thesis: *Modelling the spread of geographic epidemics*

Supervisor: Dr Boris Baeumer

Postgraduate Certificate in Higher Education (PGCHE) **2020–2021**

University of Nottingham

Module 1 (20 credits) completed; **Associate Fellowship of Higher Education Academy (AFHEA)** awarded

BSc Mathematics **2004–2006**

University of Otago, Dunedin, New Zealand

Awards & Honours

Lord Dearing Teaching Excellence Award — UNNC (2021)

NZMS Student Travel Grant (NZ\$800) (2014)

Selected Publications & Presentations

Peer-Reviewed Publication

Gemmell NJ, **Jalilzadeh A**, Soboleva T, Didham RK and Tompkins DM (2013) *The Trojan Female Technique: A Novel, Effective and Humane Approach for Pest Population Control*. Proc Roy Soc B 280(1773): 2549.

TEDx Talk

Trojan Female Technique — TEDx@UNNC (Selected Speaker), 25 September 2021
<https://www.ted.com/tedx/events/45292>

Invited Talks & Seminars (Selected)

- Sharif University of Technology, Dept of Physics (invited speaker) — *Effect of chemokine superdiffusion on phagocyte chemotaxis* (2015)

Conference Presentations (Selected)

- Biological Heritage National Science Challenge, Wellington, NZ (2017)

Technical & Computer Skills

- **Educational Technology:** Moodle, Microsoft Teams, Panopto, Tencent, blended learning platforms

Additional Contributions

Writing Online Calculus Assignments (2014)

University of Otago, Dept of Mathematics & Statistics

Converted traditional assignments into online format for first-year papers (MATH151, 160, 170) and second-year Multivariate Calculus (MATH203)

Leading Mathematics Project Camps (2012–2015)

Otago University Advanced School Sciences Academy (OUASSA)

Ran summer/winter camps for talented high school students from lower decile schools across New Zealand; demonstrated real-world applications of mathematics in medicine and biology; conducted workshops for mathematics teachers

Cryptology Club (2023–Present)

Ningbo Barstow School

Founded and lead a student club teaching Python programming and number theory fundamentals

References

Available upon request.