Zhaochen Ding
Curriculum Vitae

Email: dzha470@aucklanduni.ac.nz, dingren941@gmail.com
Personal Website: https://ddfdd-cyber.github.io/

Research Interests

Finite group theory and related fields, particularly theory of graph symmetries and maps including arc-transitive graphs and regular maps.

Education

- **University of Auckland**   Auckland, New Zealand
  Doctoral candidate in Mathematics   *2020.09 - present (submitting on 2024.10)*
  Supervisor: Gabriel Verret
  Co-supervisors: Florian Lehner, Jeroen Schillewaert

- **Southern University of Science and Technology**   Shenzhen, P. R. China
  Master of Science in Fundamental Mathematics   *2018.08 - 2020.07*
  Supervisor: Cai Heng Li
  Grade Point Average: 3.93/4.0

- **Sichuan University**   Chengdu, P. R. China
  BSc in Mathematics   *2014.09 - 2018.06*
  Supervisor: Ming Lu
  Grade Point Average: 3.52/4.0 (87.36/100)
  Integrated Ranking: 3/40

Articles and Theses

- **Some Necessary Conditions for Compatibility of Groups**
  Joint with: Gabriel Verret
  (submitting on 2025.01)

- **On Compatible Groups**   PhD Thesis
  Supervisor: Gabriel Verret
  University of Auckland (submitting on 2024.10)

- **Bi-rotary Maps of Negative Prime Square Euler Characteristics**   Master Thesis
  Supervisor: Caiheng Li
  Southern University of Science and Technology (2020)

Conference Presentations

- **The Frontier Seminar on Groups, Graphs and Combinatorics** Kunming, China
  On Compatible Groups *2025.01.10-2025.01.13*

- **8th Australian Algebra Conference** Canberra, Australia
  On Compatible Groups *2024.11.27-2024.11.29*

- **Department of Mathematics Student Research Conference** Auckland, New Zealand
  On Compatible Groups *2024.07.04*

- **Symmetries of Discrete Objects 2024** Auckland, New Zealand
  Bi-rotary maps of negative prime power Euler characteristics *2024.02.12 - 2024.02.16*

- **45th Australasian Combinatorics Conference** Perth, Australia
  Compatible Groups and Inverse Limits *2023.12.11 - 2023.12.15*

- **New Zealand Mathematical Society Colloquium 2023** Wellington, New Zealand
  Compatible Groups and Inverse Limits *2023.12.03 - 2023.12.06*

- **7th Australian Algebra Conference** Melbourne, Australia
  Compatible Groups and Inverse Limits *2023.11.22 - 2023.11.24*

- **New Zealand Math and Statistics Postgraduate Conference** Wanaka, New Zealand
  On Compatible Groups *2022.11.21 - 2022.11.25*

- **Department of Mathematics Student Research Conference** Auckland, New Zealand
  On Compatible Groups *2022.07.07*

Teaching Experience

Department of Mathematics, University of Auckland

- *COMPSCI120 - Mathematics for Computer Science (TA) (2024 Semester One)*

- *MATHS340 - Real and Complex Calculus (2023 Semester Two)*

- *MATHS250 - Algebra and Calculus 2 (2023 Semester One and Two)*

- *MATHS250 - Algebra and Calculus 2 (2022 Semester Two)*

- *MATHS120 - Algebra (2022 Semester One and Two)*

- *MATHS253 - Algebra and Calculus 3 (2022 Semester One)*

Department of Mathematics, Southern University of Science and Technology

- *MA111 - Advanced Linear Algebra II (TA) (2020 Spring)*

- *MAT121 - Advanced Linear Algebra II(H) (2019 Spring)*

- *MA103 - Linear Algebra I A (2018 Fall)*

Awards & Honours

- **Competitive Scholarship** — Southern University of Science and Technology
  Southern University of Science and Technology — *2019.4, 2019.10*

- **Third Prize** — Sichuan University
  The China Mathematics Competition — *2018.4*

- **Individual Scholarship, Third Class Scholarship** — Sichuan University
  Sichuan University — *2015.11, 2016.11, 2017.11*