Nicholas Mc-Donnell

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Born: Januray 9, 1999 — Santiago, Chile
Nationality: Chilean

Education

2017-2020	BSc in Mathematics, Pontificia Universidad Católica de Chile

Additional Math Experience

2018-2020	Organizer of Undergraduate Seminar at UC
2018-Present	Organizer of Model Theory Seminar at UC
2020	Undergraduate Research Experience under Marcelo Arenas

- Weisfeiler-Lehman Test, Pebble Games & $\mathcal{C}_k$
- Graph Neural Networks and it's logical expressiveness power

2020-Present	Research Assistant at IMFD[1] under Marcelo Arenas

- Improving Shapley Value Algorithm over Deterministic Decomposable Circuit
- Implementation of said Algorithm
- Running experiments of said Algorithm perfomance

Teaching Assistantship

2018-2020	Freshman Math Workshop Assistant, UC
2018	Calculus I, UC
2019	Calculus II, Ring Theory & Group Theory, UC
2020	Pre-calculus & Real Analysis, UC
2021	Cryptography, Data Structures & Design and Analysis of Algorithms, UC

Other

2017-2020	Representative of UC at ICPC Regional Competition
2020	Part of the official UC Competitive Programming team
2020	Part of the Mathematics Student Council

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[1] Millenium Institute for Foundational Research on Data