Hernán Ibarra Mejia

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Education

2023-2024	Master of Advanced Study (Part III of the Mathematical Tripos), **University of Cambridge**, UK. Expected Graduation Date: 30th June, 2024.
2020-2023	Bachelor of Science in Mathematics, **The University of Sheffield**, UK First Class Honours
2019	NCUK International Year One in Electrical and Electronic Engineering, **Universidad Peruana de Ciencias Aplicadas**, Peru One semester completed.
2013-2018	High School Certificate & International Baccalaureate (IB) Diploma, **Abraham Lincoln Peruvian North American School**, Peru

Research Experience

2022	*Globalink Research Internship*, **Université du Québec à Montréal** Funded by MITACS, this three-months internship allowed me to work on quiver representations, Coxeter groups, homological algebra, etc.
2021	*Undergraduate Research Internship* (UGRI), **The University of Sheffield** Funded by the Heilbronn Institute for Mathematical Research, I spent 4 weeks working, along with two PhD students, on Lie groups.

Scholarships and Awards

2023 2022	T M Flett Prize in Pure Mathematics "This prize is awarded to four students each year, in memory of a former Professor in the Department of Pure Mathematics. It is given in recognition of academic performance." I got this prize on 2022 and 2023.
2022	Exceptional contribution to SoMaS community prize "This prize is awarded annually in recognition of special contributions made to the well-being and sense of community of the **School of Mathematics and Statistics** and the University."
2021	Walker Prize in Mathematics "For the best performance in a mathematical subject by a student in his/her first year of undergraduate study in the **School of Mathematics and Statistics**, taking into account both coursework and examination performance."
2020	International Baccalaureate Undergraduate Merit Scholarship Worth 50% of tuition (£10 400 per annum), each year these scholarships are awarded to 5 international students commencing their studies at The University of Sheffield.

Volunteering

2023 2022	Sheffield General Cemetery Landscape volunteer. Activities were done in teams and include clearing vegetation, weeding, clearing of paths and graves, planting, litter picking.

Conferences & Workshops

2022	**LMS Undergraduate Summer School**
	The main aim of this two-week-long school is to introduce different topics of modern mathematics to undergraduate students. Admission was competitive and attendance was in person (expenses assumed by the organization).
2022	**Learning Mathematics with LEAN (Attendee)**
	"Workshop about using the automated theorem prover Lean to teach first year pure mathematics."
2022	**Tomorrow's Mathematicians Today (Speaker)**
	Online conference with undergraduate speakers from all over the UK. The title of my talk was **Tomorrow's Mathematics Today: Automated Theorem Proving**. I introduced Lean and the basics of type theory.
Various (2020-22)	**Undergraduate Colloquium (Speaker)**
	Two talks on automated theorem proving (see above) and one on quiver representations, related to my research during the Globalink Research Internship.
Various (2020-22)	**Undergraduate Research Workshop (Speaker)**
	One talk on matrix groups and another one on quiver representations, both related to my research experiences.

Ancillary Activities

Founder of 'Algebra Club'	Undergraduate reading seminar
Co-founder of the SoMaS Newsletter	First departamental newsletter
Academic Representative (2020-22)	The role is to express the class' needs to the staff
Member of the Teaching Committee	One of two students in the department that take part in the decisions regarding teaching policies

Languages

Spanish:	Mother tongue
English:	Fluent

Computer Skills

Basic Knowledge:	HTML, CSS
Proficient:	Python, R, C, LaTeX, Lean (proof assistant)