

# Hernán IBARRA MEJIA

## CONTACT

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## CAREER OBJECTIVE

To work as a research mathematician in a place where I can make full use of my mathematical skills by collaborating with like-minded colleagues.

## RESEARCH EXPERIENCE

- JUNE 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.
- JUNE 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 matrix groups, as examples of Lie Groups.

## EDUCATION

- 2020-2023 | Bachelor of Science in MATHEMATICS, **The University of Sheffield, UK**  
Expected Graduation Date: June 2023  
On track for a first class honours degree
- 2019 | NCUK International Year One in ELECTRICAL AND ELECTRONIC ENGINEERING, **Universidad Peruana de Ciencias Aplicadas, Peru**  
One out of two semesters completed
- 2013-2018 | High School Certificate & International Baccalaureate (IB) Diploma, **Abraham Lincoln Peruvian North American School, Peru**  
IB score: 39/45

## SCHOLARSHIPS AND AWARDS

- JULY 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.”
- JULY 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.”
- JULY 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 (SoMaS)**, taking into account both coursework and examination performance.”
- JUNE 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.

## CONFERENCES & WORKSHOPS

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AUGUST 2022	<b>LMS Undergraduate Summer School</b> The main aim of this two-week-long school is to introduce different topics of modern mathematics to undergraduate students and encourage them to further study for a PhD degree in Mathematics. In 2022, the school was hosted in Edinburgh. Admission was competitive and attendance was in person (expenses assumed by the organization).
APRIL 2022	<b>Learning Mathematics with LEAN (Attendee)</b> “Workshop about using the automated theorem prover Lean to teach first year pure mathematics.”
MARCH 2022	<b>Tomorrow’s Mathematicians Today (Speaker)</b> Online conference with undergraduate speakers from all over the UK. The title of my talk was <b>Tomorrow’s Mathematicians Today: Automated Theorem Proving</b> . I introduced Lean and the basics of type theory.
VARIOUS (2020-2022)	<b>Undergraduate Colloquium (Speaker)</b> I have given two talks on automated theorem proving (see above) and one on quiver representations, related to my research during the Globalink Research Internship.
VARIOUS (2020-2022)	<b>Undergraduate Research Workshop (Speaker)</b> I have given a talk on matrix groups and another one on quiver representations, both related to my research experiences.

## ANCILLARY ACTIVITIES

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FOUNDER OF ‘ALGEBRA CLUB’	Undergraduate reading seminar
CO-FOUNDER OF THE SOMAS NEWSLETTER	First departmental 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 whole department that take part in the decisions regarding teaching policies

## LANGUAGES

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SPANISH: Mother tongue  
ENGLISH: Fluent

## COMPUTER SKILLS

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Basic Knowledge: HTML, CSS  
Proficient: PYTHON, R, C,  $\LaTeX$ ,  
LEAN (proof assistant)