

## Ian Gleason

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Born: May 21, 1992. Mexico City.

Nationality: Mexican, Lithuanian.

Languages: Spanish, English.

## Education

BA in Mathematics, UNAM Mexico.

Average: 9.96/10 with honors

Thesis title: “El antiprisma” (*The antiprism*)

Supervisor: Isabel Hubard

Aug 2010-  
Nov 2014

Phd in Mathematics, UC Berkeley.

Thesis title: “Specialization maps for Scholze’s category of diamonds.”

Supervisor: Sug Woo Shin

Aug 2015-  
Aug 2021

## Currently

Postdoctoral position in Universität Bonn, funded by Scholze’s Leibniz-Preis.

## Talks in Conferences and Workshops

“Variedades de Shimura locales” (Expository) *5th Meeting of Mexican Mathematicians in the World*.

BIRS-Casa Matemática Oaxaca.

Dec 2021

“On the geometric connected components of unramified local Shimura varieties” *Midwest Representation Theory Conference 2020*.

Virtual Conference:

<https://homepage.divms.uiowa.edu/~mkrishna/2020mrctc/program.html>

Oct 2020

“An introduction to p-divisible groups” (Expository) *50° Congreso Nacional de la Sociedad Matemática Mexicana*.

Instituto de Matemáticas, UNAM. Mexico City, Mexico.

Dec 2017

“Products in abstract polytopes and the antiprism” *Kaleidoscope: A conference in honor of Javier Bracho*.

May 2014

Ixtapa Zihuatanejo, Mexico.

### Talks in seminars as invited speaker.

“The formal geometry of the local models” *CUHK, Representation and Number Theory seminar.*

Mar 2022

“The specialization principle for  $p$ -adic kimberlites” *MPIM, Arbeitsgemeinschaft Arithmetische Geometrie.*

Nov 2021

“On the geometric connected components of moduli of  $p$ -adic shtukas” *CIMAT, Seminario álgebra conmutativa y geometría algebraica.*

Apr 2021

“On the geometric connected components of moduli of  $p$ -adic shtukas” *MIT, number theory seminar*

Mar 2021

“On the geometric connected components of moduli of  $p$ -adic shtukas” *University of Michigan, umich.zoom.us*

Jan 2021

### Preprints and work in progress

Johannes Anschütz, Ian Gleason, João Lourenço, and Timo Richarz. On the  $p$ -adic theory of local models. *arXiv preprint arXiv:2201.01234*, 2022

Ian Gleason. On the geometric connected components of moduli spaces of  $p$ -adic shtukas and local shimura varieties. *arXiv preprint arXiv:2107.03579*, 2021

Ian Gleason. Specialization maps for scholzes category of diamonds. *arXiv preprint arXiv:2012.05483*, 2021

### Publications

Ian Gleason and Isabel Hubard. Products of abstract polytopes. *Journal of Combinatorial Theory, Series A*, 157:287–320, 2018

Ian Gleason and Isabel Hubard. The antiprism of an abstract polytope. *ARS MATHEMATICA CONTEMPORANEA*, 2021

### Teaching

Teaching Assistant at UC Berkeley, Berkeley, CA.

MATH 110 (Linear Algebra for STEM). 3 sections, 1 semester	2020
MATH 250A (Graduate Course on Abstract Algebra). 1 section 1 semester	2019
MATH 54 (Linear Algebra). 2 sections 1 semester	2017
MATH 54 (Linear Algebra). 2 sections 1 semester	2016
MATH 1B (Calculus). 2 sections 1 semester	2016
MATH 1A (Calculus). 2 sections 1 semester	2015

Teaching Assistant A at UNAM, Mexico City, Mexico.

Logic I.	2013
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### **Awards and Scholarships**

Kenneth Ribet & Lisa Goldberg Award in Algebra Mathematics Department of UC Berkeley	2020-2021
UC-MEXUS CONACYT Doctoral Fellowship for Mexican students	2017-2021
Support Programme for Research Projects and Technological Innovation. DGAPA-UNAM	2014
International Student Mobility Scholarship. UNAM- DGECI.	2013
Scholarship for Science Olympiads. Mexican Academy of Science.	2010 - 2012

### **Service**

Reviewed an article for Annals of Mathematics.