

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 DFG via Scholze’s Leibniz-Preis.

Talks in Conferences and Workshops

“On the p -adic theory of local models” *30 Rencontres arithmétiques de Caen*.
Université de Caen.

May 2022

“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/2020mrtc/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*.
Ixtapa Zihuatanejo, Mexico. May 2014

Talks in seminars as invited speaker.

- “Tubular neighborhoods of local models” *MPIM, Arbeitsgemeinschaft Arithmetische Geometrie*.
Apr 2022
- “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

- Ian Gleason, Dong Gyu Lim, and Yujie Xu. The connected components of affine Deligne–Lusztig varieties. *arXiv preprint arXiv:2208.07195*, 2022
- Ian Gleason and João Lourenço. Tubular neighborhoods of local models. *arXiv preprint arXiv:2204.05526*, 2022

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 Scholze’s 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- DGEI. 2013

Scholarship for Science Olympiads.
Mexican Academy of Science. 2010 - 2012

Service

Reviewed an article for Annals of Mathematics.