

# Macarena Covadonga Robles Arenas (CV)

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Office: Room 1133, Burnside Hall, McGill.

Date and place of birth: Ciudad de México; August 22, 1994.

*Last updated: 10-10-2019*

## Education

- Currently an MSc Mathematics & Stats student at McGill University, Montreal, Canada, under the supervision of Professor Dani Wise.
- Mathematics BSc (*Licenciatura*): Science Faculty, UNAM, Mexico 2018.

*(General point average 9.62/10; Graduated with Honourific Mention in April 2018)*

## Awards and Scholarships

- *Beca Complemento SEP* 2018-2019.
- Scholarship for the XXVII Summer Research Programme of the Mexican Academy of Sciences, 2017.
- Second place, Mathematical Essay Competition, Universo.Math magazine, 2016.
- *Beca de Excelencia Bécalos - UNAM Licenciatura* (excellence scholarship), awarded for the 2015-2016 & 2016-2017 terms.
- First place in the “XIII Leamos La Ciencia Para Todos” Competition organized by the Fondo de Cultura Económica, category D, 2015.
- Scholarship for the XXV Summer Research Programme of the Mexican Academy of Sciences, 2015.
- Scholarship student at IMATE-UNAM since June 2015.

## Languages

- Spanish (native speaker)
- English (fluent)
- French (intermediate)

## Research

- *Measuring Complexity of Curves on Surfaces*, co-authored with professor Max Neumann-Coto. Published in *Geometriae Dedicata*. (arXiv: 1712.06671)

## Other writings

- *Papel Doblado, Geometría y la Conquista del Espacio*, Expository paper, accepted for publication at Universo.Math.

## Teaching

### *As an undergraduate student*

- Teaching Assistant, Vector Bundles and K-Theory Seminar, Faculty of Sciences, UNAM, 2017.
- Teaching Assistant, Topology I, Faculty of Sciences, UNAM, 2018.
- Teaching Assistant, Groupoids in Topology, Faculty of Sciences, UNAM, 2018.

### *As a graduate student*

- Teaching Assistant, Algebra I, McGill University, Fall 2018.
- Teaching Assistant, Algebra I, McGill University, Fall 2019.
- Grader, Geometry and Topology I, McGill University, Fall 2019.

## Given Talks

- Students Seminar IMATE-UNAM, 2017 (twice, March and November).
- *Aquelarre Matemático*, Science Faculty UNAM, 2016.
- Low Dimensional Topology Seminar, IMATE-UNAM, 2016 and 2017.
- Geometry and Topology Workshop UABJO, Oaxaca 2016.
- National Congress of Mathematics of the Mexican Mathematican Society, 2017.
- GGT Seminar and Student's Seminar at McGill.
- Lightning Talk at YGGT 2019, Bilbao, Spain, 2019.

## Attended schools and Workshops

- Simons Semester in Geometric Group Theory, IMPAN, Warsaw, Poland, April-June 2019.
- Young Geometric Group Theory VIII, Bilbao, Spain, 2019.
- Aspects of Geometric Group Theory, IHES, Bures-Sur-Yvette, France, 2019.
- Into the Forest: Generalisations of Trees Summer School, Technion, Haifa, Israel, 2019.
- Workshop: Groups of Dynamical Origin, Mathematics Institute, UNAM, 2018.
- Pacific Rim International Mathematical Association 3rd Congress, Oaxaca, 2017.
- Summer School, Centre of Mathematical Sciences UNAM, Morelia 2017.
- Winter School *Fico Gonzalez Acuña de Nudos y 3-Variedades*, Guanajuato 2016.
- XIII Summer School IMATE Cuernavaca, Morelos 2016.
- EMALCA (Mathematics School of Latin America and the Caribbean), Casa Matemática Oaxaca, Oaxaca 2016.
- Winter School *Fico González Acuña de Nudos y 3-Variedades*, Mérida 2015.
- XII Summer School IMATE Cuernavaca, Morelos 2015.
- “Encuentro Discreto” UNAM-ITAM, 2015.

## Service

- Volunteer, VII Festival Matemático 2017.
- Speaker at the *Jornada Universitaria por la Igualdad 2017* (panel discussion on equality and diversity), March 2017, Mathematics Institute, UNAM.

- Volunteer, VI Festival Matemático 2016.
- Volunteer, V Festival Matemático 2015.
- Part of the organizing group of the Students' Seminar, IMATE-UNAM (2016 – 2018).
- Organiser of the Geometric Group Theory Seminar at McGill 2018 - present.