

Clover May

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Research Interests Algebraic Topology: Equivariant homotopy theory, $RO(G)$ -graded cohomology, structured ring spectra, and tensor triangular geometry of equivariant stable categories.

Employment **Norwegian University of Science and Technology**, Trondheim, Norway
Postdoctoral Fellow, August 2021 - present

University of California Los Angeles, Los Angeles, CA
Assistant Adjunct Professor, July 2018 - June 2021

Education **University of Oregon**, Eugene, OR

- Ph.D. in Mathematics, June 2018
Thesis: *A structure theorem for $RO(C_2)$ -graded cohomology*
Advisor: Daniel Dugger
- M.S. in Mathematics, January 2015

North Carolina State University, Raleigh, NC

- Post Baccalaureate Certificate, June 2012

University of Massachusetts, Boston, MA

- B.A. in Mathematics, May 2011, Summa cum Laude
- B.A. in Sociology, December 2006, Summa cum Laude

Publications *Equivariant $H\mathbb{Z}/\ell$ -modules for the cyclic group C_2* , Journal of Pure and Applied Algebra, Volume 228, Issue 3 (2024), 107473. Joint with D. Dugger and C. Hazel. DOI [10.1016/j.jpaa.2023.107473](https://doi.org/10.1016/j.jpaa.2023.107473)

Genuine-commutative structure on rational equivariant K -theory for finite abelian groups, Bulletin of the London Mathematical Society, Volume 54, Issue 3 (2022), 1082-1103. Joint with A. M. Bohmann, C. Hazel, J. Ishak, and M. Kędziorek. DOI [10.1112/blms.12616](https://doi.org/10.1112/blms.12616)

Naive-commutative structure on rational equivariant K -theory for abelian groups, Topology and its Applications, Volume 316 (2022). Joint with A. M. Bohmann, C. Hazel, J. Ishak, and M. Kędziorek. DOI [10.1016/j.topol.2022.108100](https://doi.org/10.1016/j.topol.2022.108100)

The freeness theorem for equivariant cohomology of $Rep(C_2)$ -complexes, Topology and its Applications, Volume 285 (2020), 107413. Joint with E. Hogle. DOI [10.1016/j.topol.2020.107413](https://doi.org/10.1016/j.topol.2020.107413)

A structure theorem for $RO(C_2)$ -graded Bredon cohomology, Algebraic & Geometric Topology 20-4 (2020), 1691–1728. DOI [10.2140/agt.2020.20.1691](https://doi.org/10.2140/agt.2020.20.1691)

**Selected
Invited
Talks**

- 36th British Topology Meeting - September 2023
- Oberwolfach Workshop on Homotopy Theory, Mathematisches Forschungsinstitut
Oberwolfach - August 2023
- 29th Nordic Congress of Mathematicians: Topology Special Session, Aalborg, Den-
mark - July 2023
- University of Pennsylvania Homotopy Theory Seminar - February 2023
- Stockholm University Topology Seminar - November 2022
- AIM Workshop: Equivariant techniques in stable homotopy theory - October 2022
- Institut Mittag–Leffler EWM-EMS Summer School on Chromatic Homotopy The-
ory and Friends - June 2022
- Women in STEM: Breaking Barriers - April 2022
- Vanderbilt Geometry Seminar - December 2021
- New Directions in Group Theory and Triangulated Categories - October 2021
- Barcelona Topology Workshop - May 2021
- UMSA Undergraduate UCLA Talk on Minimal Surfaces - April 2021
- Graduate Student Topology & Geometry Conference (GSTGC) - April 2021
- Warwick Algebraic Topology Seminar - February 2021
- EPFL Topology Seminar - December 2020
- Rutgers University Algebra Seminar - December 2020
- eCHT Minicourse: Equivariant Cohomology - September 2020
- BIRS Workshop on Equivariant Stable Homotopy Theory and p -adic Hodge Theory,
Banff, Canada - March 2020
- JMM Special Session on Categorical and Computational Methods in Homotopy
Theory, Denver, CO - January 2020
- WiMSoCal, CSU Channel Islands - September 2019
- Oberwolfach Workshop on Homotopy Theory, Mathematisches Forschungsinstitut
Oberwolfach - August 2019
- Vietnam–USA AMS Joint Mathematical Meeting, Quy Nhon, Vietnam - June 2019
- Midwest Topology Seminar, Michigan State University - May 2019
- AMS Sectional: Special Session on Homotopy Theory, University of Hawaii at
Manoa - March 2019
- University of British Columbia Topology Seminar - March 2018

University of Kentucky Topology Seminar - February 2018

AMS Sectional: Special Session in Homotopy Theory, University of California Riverside - November 2017

University of Chicago Topology Seminar - October 2017

**Research Supervision/
Mentoring**

Master's Thesis Co-supervisor Chileshe Mwamba, 2023-present.

Women in Topology IV Team Co-leader, 2022 - present

**Teaching at
NTNU**

Instructor of record for the following courses.

MA3403: Algebraic Topology I - Fall 2022, Fall 2023

MA3408: Algebraic Topology II - Spring 2023

**Teaching at
UCLA**

Instructor of record for the following courses; included planning and presenting material, writing all assessments, as well as managing graduate student TAs and in some cases undergraduate learning assistants.

Math 32A: Multivariable Calculus - Fall 2018, Winter 2019, Spring 2021 (Large lecture)

Math 32B: Multivariable Calculus - Spring 2019, Fall 2019 (Large lecture)

Math 33AH: Honors Linear Algebra and Applications - Winter 2021

Math 115A: Linear Algebra - Winter 2019, Spring 2019

Math 115B: Linear Algebra - Winter 2020

Math 120A: Differential Geometry - Fall 2020, Winter 2021, Spring 2021

Math 237: Graduate Topics - Spectral Sequences - Spring 2020

**Teaching at
UOregon**

Instructor of record for the following courses; included planning and presenting material, as well as writing and grading all assessments.

Math 105: University Math I - Summer 2014

Math 111: College Algebra - Fall 2012, Winter 2013, Spring 2013

Math 112: Elementary Functions - Summer 2013, Winter 2014, Spring 2014, Fall 2014, Fall 2016

Math 251: Calculus I - Winter 2015, Winter 2016, Fall 2017

Math 252: Calculus II - Summer 2015, Fall 2015, Spring 2016

Math 253: Calculus III - Summer 2017

Math 256: Differential Equations - Summer 2016, Summer 2018

Math 281: Multivariable Calculus I - Winter 2018

Math 282: Multivariable Calculus II - Spring 2018

**Awards and
Grants**

Liggett Instructors Award, June 2021

Awarded by the UCLA Mathematics Department for highly effective teaching.

US Junior Oberwolfach Fellow, August 2019

Travel grant for Oberwolfach workshop on homotopy theory.

Anderson Distinguished Graduate Teaching Award, June 2017

Awarded by the University of Oregon Mathematics Department to graduate students with outstanding teaching records.

Paul and Harriet Civin Memorial Graduate Award, June 2012

Awarded by the University of Oregon Mathematics Department for the purpose of attracting and retaining promising graduate students.

Juan Carlos Merlo Prize, June 2011

Awarded by the University of Massachusetts Boston Mathematics Department for outstanding achievement in mathematics.

Service

Referee *Advances in Mathematics, Topology and its Applications*

NTNU Geometry and Topology Seminar Co-organizer, 2023 - present

EMOHO Postdoc Hiring Committee member, 2023

eCHT Employment Networking Event Co-organizer, 2022 - 2023

Nordic Topology Conference Co-organizer, 2022

UCLA Math Equity, Diversity, and Inclusion Committee, 2020 - 2021

UCLA Algebraic Topology Seminar Co-organizer, 2018 - 2021

QSTEM Mentor, 2018 - 2021

Mentor to queer STEM undergraduate students at UCLA.

UOregon Homotopy Seminar Organizer, 2017 - 2018

Organizer of the graduate student topology seminar at the University of Oregon.

AWM Speaker Series Committee Chair, 2016 - 2017

Organizer of the AWM Distinguished Speaker Series and host for invited speakers.

JUMP! Mentor, 2016 - 2017

Mentor to University of Oregon undergraduate students in STEM fields.

Graduate Student Mentor, 2015 - 2017

Mentor to first year graduate students at University of Oregon.

AWM K-12 Outreach Committee, 2014 - 2017

Led minimal surfaces and soap films activity at the Science Factory.

Volunteered at Malabon Elementary Afterschool Program.

Led math activities with children at Meet a Scientist Day at the Science Factory.

AWM Mentoring Committee, 2014 - 2016

Helped organize undergraduate/graduate reading program.

Mentor for undergraduate reading on Minimal Surfaces and Soap Films.

Curriculum Development for Math 112, Summer 2015

Developed curriculum for trigonometry at University of Oregon.