

Christian Geske

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✉ geske@usc.edu

EDUCATION

PhD in Mathematics	2014–2019
University of Wisconsin–Madison, Advised by Laurentiu Maxim	
BS in Mathematics	2010–2014
University of Southern California, Graduated Magna Cum Laude	

APPOINTMENTS

Assistant Teaching Professor	2025–present
University of Southern California	
Lecturer	2023–2025
University of Southern California	
Teacher	2023
John Burroughs High School	
Adjunct Instructor	2022
Saint Louis University	
Postdoctoral Lecturer	2019–2022
Northwestern University	

TEACHING EXPERIENCE

Instructor

@ University of Southern California

Math 118	Fa23
Math 125	Fa23, Sp24, Fa24
Math 225	Sp24
Math 226	Fa24



@ John Burroughs High School

Algebra II (2 Sections Regular + 2 Sections Accelerated)	Sp23
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@ Saint Louis University

Math 1400: Precalculus	Fa22
Math 1320: Survey of Calculus	Fa22

@ Northwestern University

Math 368–0: Introduction to Optimization	Wi20, Sp21
Math 344–2: Algebraic Topology	Sp22
Math 344–1: Point–Set Topology	Wi22
Math 290:  MENU Linear Algebra and Multivariable Calculus	Fa19–Sp20 & Fa20–Sp21
Math 285:  MMSS Linear Algebra and Multivariable Calculus	Fa21–Sp22
Math 220–1: Single Variable Differential Calculus	Fa21
Math 218–1: Single Variable Calculus with Precalculus	Fa19

@ University of Wisconsin–Madison

 Engineering Summer Program: Precalculus	Su19
Graduate-Level Topology Summer Enhancement Program	Su17, Su18
Math 118: Precalculus	Su15

@ Campersand Math Camp

Peek into Topology	Su21
Recursion; Analytic Combinatorics	Su18

TEACHING EXPERIENCE CONTINUED

Teaching Assistant

@ University of Wisconsin–Madison

Calculus I Sp15, Fa18

Calculus II Fa14, Fa16, Fa17

Calculus III Fa15

TEACHING AWARDS

Award for Excellence in Teaching (\$200) 2021

Department of Mathematics, Northwestern University

☞ **L&S Teaching Fellow Award** (\$1000) 2018

College of Letters and Sciences, University of Wisconsin-Madison

Mathematics Graduate Teaching Award (\$250) 2016

Department of Mathematics, University of Wisconsin-Madison

University Housing Honored Instructor 2014

University of Wisconsin-Madison

SERVICE

Course Coordinator Fa24

Math 226, University of Southern California

SC Math Club Faculty Mentor Fa24–present

University of Southern California

Leader, Gradescope Orientation for New Faculty Su24

University of Southern California

Scholarship Interviewer Sp24

University of Southern California

Leader, Number Theory Reading Course (Informal) Sp24

University of Southern California

Co-Director, ☞ Northwestern Emerging Scholars Program Fa20–Sp22

Department of Mathematics, Northwestern University

Course Coordinator Fa20–Sp21

☞ **MENU** Math 290 Sequence, Northwestern University

Leader, Topology Reading Course (Informal) Sp20–Su21

Northwestern University

Member, Teaching Assistant Evaluation Committee 2018, 2019

Department of Mathematics, University of Wisconsin-Madison

Teaching Assistant Coordinator Fa16, Fa17, Fa18

Department of Mathematics, University of Wisconsin-Madison

Teaching Assistant Mentor Fa16, Fa17, Fa18

Department of Mathematics, University of Wisconsin-Madison

Referee, ☞ Journal of Singularities 2020

GRANTS

☞ **Tensor SUMMA Grant** (\$6000) 2022–23

Source: Mathematical Association of America

Project: ☞ **Northwestern Emerging Scholars Program**

MATHEMATICAL INTERESTS

Topology of Singular Spaces, Knot Theory, Topology and Hodge Theory

PUBLICATIONS AND PREPRINTS

Published

- ☞ [Signatures of Topological Branched Covers](#) (with A. Kjuchukova and J. Shaneson) 2020
International Mathematics Research Notices.
- ☞ [Algebraic Intersection Spaces](#) 2019
Journal of Topology and Analysis.
- ☞ [On the Signed Euler Characteristic Property for Subvarieties of Abelian Varieties](#) 2018
(with E. Elduque and L. Maxim)
Journal of Singularities 17, 368-387.

Accepted

- Mixed Hodge Structures on Alexander Modules (with Elduque, Herradon, Maxim, Wang) 2021
Memoirs of the American Mathematical Society.
- Hodge Theory on Alexander Invariants – Survey (with Elduque, Herradon, Maxim, Wang) 2020
Proceedings of 2019 Hyper-JARCS Conference.

ACADEMIC AWARDS

- Excellence in Mathematical Research Award** (\$500) 2018
Department of Mathematics, University of Wisconsin-Madison
- Recipient, Algebra Research Training Grant** (stipend) 2016, 2017, 2018
NSF, University of Wisconsin-Madison
- Chancellor's Opportunity Award** (\$2500) 2015
Department of Mathematics, University of Wisconsin-Madison
- Dean's Scholar** (scholarship) 2010–2014
University of Southern California
- Resident Honors Program** (1-year-early university enrollment) 2010
University of Southern California

OTHER EMPLOYMENT

- Cryptography Intern** Su11, Su12
Strategic Technology & Innovation, Pitney Bowes
- ☞ [Patent](#) Coauthor