

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, Fa25
Math 245	Fa25



@ 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

TEACHING EXPERIENCE CONTINUED

Instructor

@  **Campersand** Math Camp


Peek into Topology	Su21
Recursion; Analytic Combinatorics	Su18

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, Fa25
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

CONFERENCE TALKS GIVEN

Mastery-Based Application in Calculus	Su25
☞ MAA Mathfest Contributed Paper Sessions	
Mixed Hodge Structures on Alexander Modules	Su18
☞ Special Session at Fall Central AMS Sectional Meeting	
Algebraic Intersection Spaces	Su18
Workshop for Young Researchers in Mathematics in Bucharest, Romania	
Algebraic Intersection Spaces	Sp18
Singularities in the Midwest, V	

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
<i>International Mathematics Research Notices.</i>	
☞ Algebraic Intersection Spaces	2019
<i>Journal of Topology and Analysis.</i>	
☞ On the Signed Euler Characteristic Property for Subvarieties of Abelian Varieties	2018
(with E. Elduque and L. Maxim)	
<i>Journal of Singularities</i> 17, 368-387.	

Accepted

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

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	