

## Yu LUO

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CONTACT INFORMATION	Department of Mathematics University of Wisconsin - Madison 518 Van Vleck Hall 480 Lincoln Drive Madison, WI 53706 USA			(608)949-2961 yluo237@wisc.edu math-yuluo.github.io
RESEARCH INTERESTS	Arithmetic Algebraic Geometry			
EDUCATION	<b>University of Wisconsin - Madison</b> Ph.D. in Mathematics (In progress) M.A. in Mathematics, May 2021  <b>Zhejiang University</b> B.S. in Mathematics, May 2020			
HONORS AND AWARDS	2016–2017	Government Scholarship Zhejiang Government		
	2017–2018	Government Scholarship Zhejiang Government		
	2018–2019	A scholarship equivalent to the Government Scholarship		
SERVICES	2022	Spring	Coorganizers, GAGS - Graduate Algebraic Geometry Seminar	
	2022	Spring	Mentor, Undergraduate Directed Reading Program - Baoyi WANG	
	2021	Fall	Mentor, Master Program in UW-Madison Math Department. Ruoxi LI (Currently in UIUC Math PhD), Weiman YUAN (Cur- rently Vanderbilt Univ. Bio. Engineering), Aditya Phukon.	
	2020	Spring	Organizer, Algebraic Geometry Learning Seminar	
	2019	Fall	Organizer, Commutative Algebra Learning Seminar	
	2019	Spring	Organizer, Undergraduate Algebraic Geometry Seminar	
SCIENTIFIC RESEARCH EXPERIENCE	2020–2020	Vector Bundle of Algebraic Curves. Advisor: Fei Yu, Department of Mathematics, Zhejiang Uni- versity.		
	2019–2019	Weil Conjecture for Algebraic Curves Advisor: Xinyi Yuan, Beijing International Center for Mathe- matical Research, Peking University.		
	2019–2019	A simple question about simple Coxeter elements Advisor: Xuhua He, Mathematics of the Institute of Mathe- matical Sciences, Chinese University of Hong Kong.		
	2019–2019	Weil Conjecture for Elliptic Curves Advisor: Xinyi Yuan, Beijing International Center for Mathe- matical Research ,Peking University.		
SEMINAR TALKS	<i>Riemann-Hilbert Correspondence</i> , Graduate Algebraic Geometry Seminar, University of Wisconsin Madison. (Febearly 2022)  <i>Stacks for Kindergarteners</i> , Graduate Algebraic Geometry Seminar, University of Wis- consin Madison. (December 2021)			

*Grothendieck Complexes and Flat Base Change*, Graduate Deformation Theory Seminar, University of Wisconsin Madison. (October 2021)

*Construction of Quot scheme and flat family*, Graduate Deformation Theory Seminar, University of Wisconsin Madison. (October 2021)

*Intersection Theory and Grothendieck Riemann Roch*, Graduate Algebraic Curve Reading Seminar, University of Wisconsin Madison. (April 2021)

*The Zariski Tangent space of  $W_d^r(C)$  and  $G_d^r(C)$* , Graduate Algebraic Curve Reading Seminar, University of Wisconsin Madison. (March 2021)

*First Properties of Schemes*, Undergraduate Algebraic Geometry Reading Seminar, Zhejiang University. (May 2019)

*Schemes*, Undergraduate Algebraic Geometry Reading Seminar, Zhejiang University. (April 2019)

*Nonsingular Varieties*, Undergraduate Algebraic Geometry Reading Seminar, Zhejiang University. (March 2019)

*Rational Maps*, Undergraduate Algebraic Geometry Reading Seminar, Zhejiang University. (March 2019)

*Affine Varieties and Dimension Theory*, Undergraduate Algebraic Geometry Reading Seminar, Zhejiang University. (March 2019)

*Covering Space*, Undergraduate Algebraic Topology Reading Seminar, Zhejiang University. (December 2018)

*Abstract theory of weights*, Undergraduate Lie Algebra Reading Seminar, Zhejiang University. (November 2018)

*Root system and classification of Dynkin diagram*, Undergraduate Lie Algebra Reading Seminar, Zhejiang University. (November 2018)

*Fundamental group and singular homology*, Undergraduate Algebraic Topology Reading Seminar, Zhejiang University. (October 2018)

RELEVANT  
SKILLS

Languages: English, Mandarin