

YIDI WANG

CONTACT INFORMATION	Department of Mathematics David Rittenhouse Lab 3N4A University of Pennsylvania 209 South 33rd Street Philadelphia, PA, 19104, U.S.A.	
RESEARCH INTERESTS	Algebra, Algebraic Geometry, Arithmetic Geometry, Algebraic Number Theory, Differential Galois Theory, Invariant Theory, Representation Theory of Algebraic Groups.	
EDUCATION	University of Pennsylvania , Philadelphia, Pennsylvania, U.S.A. Ph.D. Candidate in Mathematics, Graduate School of Art and Science, 2023. <ul style="list-style-type: none"> • Advisor: Julia Hartmann • Thesis: The local aspects and the local-global principles of algebraic objects • Benjamin Franklin Fellowship • Passed Ph.D. Qualifying Examination on May 7th, 2020. University of California, Berkeley , Berkeley, California, U.S.A. B.A. in Mathematics, May 2018 <ul style="list-style-type: none"> • Honors in Mathematics 	
RESEARCH PROJECTS	2022–Present Local-global principles in differential Galois theory 2022–Present Generalized period-index problem over henselian semi-global fields. Preprint in preparation 2020–2022 Arithmetic Invariant Theory of Algebraic Groups over Dedekind Domains and Beyond. Preprint in preparation	
RESEARCH TALKS	Nov 2022 Local-global principles over henselian semi-global fields and their applications to the generalized period-index problem, Algebra sem- inar, Florida State University Feb 2022 Linearly reductive group schemes over rings, Algebra seminar, Uni- versity of Pennsylvania	
TEACHING EXPERIENCE	Spring 2022 Mentor, Direct reading program, University of Pennsylvania Spring 2020 Teaching Assistant, Math 312, Linear Algebra University of Pennsylvania Fall 2020 Teaching Assistant, Math 104, Calculus II University of Pennsylvania Spring 2020 Teaching Assistant, Math 313, Advanced Linear Algebra University of Pennsylvania Fall 2019 Teaching Assistant, Math 240, Calculus III: Linear Algebra and Differential Equations University of Pennsylvania Spring 2017 Adjunct Instructor, Math 16B, Calculus II for Social Science and Environmental Science Student Learning Center, University of California, Berkeley	

HONORS AND AWARDS	2018		Benjamin Franklin Fellowship Graduate School of Arts and Science, University of Pennsylvania.
	2018		Honors in Mathematics University of California, Berkeley
CONFERENCE AND WORKSHOP	Mar	2023	Arizona Winter School: Unlikely Intersections
	Jan	2023	Joint Mathematics Meeting
	May	2022	GTA Philadelphia 2022: Graduate student conference at Temple University in algebra, geometry and topology
	Jul	2020	ALGAR 2020: valuations, quadratic forms and definability, Univer- sity of Antwerp, online
	Jun	2020	Chicago Number Theory Day, online
RELEVANT SKILLS	Languages:		English, Mandarin Chinese, Japanese
	Skills:		Latex, Mathematica, MatLab, Python, Java