

# *C. Eric Overton-Walker*

## *~Curriculum Vitae~*

University of Arkansas  
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### ***Education.***

PhD Candidate in Mathematics; advisor: Prof. Lance Edward Miller.	University of Arkansas	in progress
MS in Mathematics.	University of Arkansas	May 2018
BA cum laude with distinction in Mathematics and in Spanish; math advisor: Prof. Christopher S. Camfield; thesis: <i>An Open Door to Geometric Measure Theory</i> .	Hendrix College	May 2016

### ***Research Interests.***

Homological and homotopical algebra, derived methods in commutative algebra and algebraic geometry, deformations, arcs and jets, Kähler differentials and the cotangent complex.

### ***Honors and Awards.***

John C. Massie Memorial Fund	University of Arkansas	2021-2022
William Alton Anderson Endowed Scholarship in Arts & Sciences	University of Arkansas	2019-2020
Julia Hicks Endowed Graduate Teaching Award	University of Arkansas	2018-2019
Lawrence Jesser Toll, Jr. Endowed Fund	University of Arkansas	2017-2018

### ***Publications and Preprints.***

Derived jets and arcs In preparation with Roi Docampo and Lance Edward Miller	[arXiv forthcoming]
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### ***Talks.***

CARES: Commutative Algebra Regional Expository Seminar (virtual) <i>Spectral sequences aren't scary (no, really!)</i>	24 October 2022
Number theory student seminar (internal) <i>Ideals in Dedekind domains II</i>	24 October 2022
Graduate student colloquium (internal) <i>Video game character creation is a moduli problem</i>	19 October 2022
Number theory student seminar (internal) <i>Ideals in Dedekind domains I</i>	10 October 2022
Number theory student seminar (internal) <i>Algebraic number fields</i>	19 September 2022
Graduate student colloquium (internal) <i>Algebraic geometry for new grad students</i>	6 September 2022
URiCA: Upcoming Researchers in Commutative Algebra (University of Nebraska-Lincoln) <i>Derived algebraic geometry and jet schemes</i>	7 May 2022
ARTS: Algebra and Representation Theory Seminar (University of Oklahoma) <i>Derived algebraic geometry and jet schemes</i>	1 April 2022
Algebra seminar (internal) <i>Derived algebraic geometry and jet schemes</i>	4 February 2022

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### ***Talks, continued.***

Graduate student colloquium (internal) UARK GSC What is...? #1: Tropical Geometry	26 January 2022
Graduate student colloquium (internal) What's on the mind of air traffic controllers and algebraic geometers? #2 (Blowing up points on the plane)	17 November 2021
CARES: Commutative Algebra Regional Expository Seminar (virtual) The module of Kähler differentials	12 October 2021
Jet spaces / arc spaces learning seminar (University of California San Diego, virtual) Jets, arcs, and cylinders	19 May 2021
CARES: Commutative Algebra Regional Expository Seminar (virtual) Macaulay2 Panel (joint with Michael DeBellevue, Alexander Duncan, David Smith)	15 April 2021
CARES: Commutative Algebra Regional Expository Seminar (virtual) Jet and arc spaces from a commutative algebra point of view	11 March 2021
The Curry Seminar: Algebra and topology seminar (internal) The Silmarillion: K-Theory	13 October 2020
Graduate student colloquium (internal) What's on the mind of air traffic controllers and algebraic geometers? (An introduction to jet spaces)	11 March 2020
Spectral sequence seminar (internal) Differentially bigraded algebras and spectral sequence constructions	31 July 2019
Spectral sequence seminar (internal) Perfectly balanced: Using spectral sequences to balance Tor and Ext, and the Universal Coefficient Theorem	25 July 2019

### ***Service.***

University of Arkansas Graduate Student Colloquium Co-organizer, Vice President.	Spring 2022-present
STAG: Students Teaching Algebraic Geometry discussion seminar Co-organizer.	Fall 2020-present

### ***Teaching Experience.***

Calculus 1 (MATH 2554) instructor/coordinator	Summer 2022, Summer 2020 (coord.), Summer 2019 (coord.), Summer 2018, Summer 2017.
Survey of Calculus (MATH 2043) instructor	Summer 2021, Spring 2021.
College Algebra (MATH 1203) instructor	Fall 2022, Spring 2022, Fall 2021, Fall 2020, Spring 2020, Fall 2019, Spring 2019, Fall 2018, Spring 2018, Fall 2017.
Math Spot tutor	Since Fall 2016.
Calculus 1 (MATH 2554) teaching assistant	Spring 2017, Fall 2016.