Cory Colbert, Ph.D.
FULL CURRICULUM VITAE

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Academic Employment

2024-current	**Associate Professor of Mathematics**, *Washington & Lee University*, Lexington, VA
2018-2024	**Assistant Professor of Mathematics**, *Washington & Lee University*, Lexington, VA
2016-2018	**Gaius C. Bolin Fellow in Mathematics**, *Williams College*, Williamstown, MA
2012-2016	**Teaching Assistant**, *The University of Texas at Austin*, Austin, TX

Education

2017	**Ph.D.** - **Mathematics**, *The University of Texas at Austin*, Austin, TX
2013	**M.A.** - **Mathematics**, *The University of Texas at Austin*, Austin, TX
2011	**B.S.** - **Mathematics**, *Virginia Commonwealth University*, Richmond, VA

Summer Academic Employment

2014-2021	**Bridge to Enter Advanced Mathematics** BEAM is a residential summer mathematics program designed for 7th graders from underserved middle schools in New York City
2022	**PRiME REU Research Director** PRiME, short for "Pomona Research in Mathematics Experience," is an NSF-funded summer mathematics research experience that focuses on community and mentorship through coursework, research, panels, talks, field trips, and other activities. I directed a research group on order theory.

Doctoral Thesis and Research Interests

Title:	Cardinality Restrictions on Noetherian Spectra
Supervisor:	Raymond Heitmann
Award:	Frank Gerth III Award for Dissertation Excellence Department-wide award for thesis excellence.
Research interests:	Commutative algebra; Noetherian geometry and spectra; order theory and set theory.

Publications

2023	(with S. Loepp)*Every finite poset is isomorphic to the saturated subset of the spectrum of some Noetherian UFD.* To appear in *Journal of Algebra*
2023	*A Structural Invariant on Certain Two-Dimensional Noetherian Partially Ordered Sets* Rocky Mountain Journal of Mathematics, Volume 53, No. 3, 711-724, DOI: 10.1216/rmj.2023.53.711
2022	(with S. Loepp) *Gluing minimal prime ideals in local rings,* Communications in Algebra, 51:1, 239-247, DOI: 10.1080/00927872.2022.2096226

2021	*Enlarging localized polynomial rings while preserving their prime ideal structure,* Journal of Algebra, Volume 575, 2021, Pages 14-30
2013	(with E. Burger, D. Clyde, G. Shin, and Z. Wang) *Canonical Diophantine representations of natural numbers with respect to quadratic "bases."* J. Number Theory 133 (2013) no. 4, 1372-1388
2012	(with E. Burger, D. Clyde, G. Shin, and Z. Wang) *A generalization of a theorem of Lekkerkerker to Ostrowski's decomposition of natural numbers.* Acta Arith. 153 (2012), no. 3, 217-249

Submissions & Works in Progress

2022	(with A. Lee) *Symplectic embeddings of ellipsiods into polydisks.* In progress.
2022	(with R. Garcia, et. al) *Automorphisms of certain infinite orders.* In progress.

Teaching Experience

Washington & Lee University

Winter 2023	Linear Algebra	*Instructor*
Winter 2023	Bridges to Advanced Mathematics	*Instructor*
Fall 2022	Calculus I	*Instructor*
Fall 2022	Calculus II	*Instructor*
Winter 2022	Bridges to Advanced Mathematics	*Instructor*
Winter 2022	Topics in algebra	*Instructor*
Fall 2021	Bridges to Advanced Mathematics	*Instructor*
Fall 2021	Linear Algebra	*Instructor*
Winter 2021	Bridges to Advanced Mathematics	*Instructor*
Winter 2021	Real Analysis	*Instructor*
Winter 2020	Bridges to Advanced Mathematics	*Instructor*
Fall 2019	Abstract Algebra	*Instructor*
Fall 2019	Calculus II	*Instructor*
Winter 2019	Linear Algebra	*Instructor*
Winter 2019	Calculus II	*Instructor*
Fall 2018	Calculus II	*Instructor*
Fall 2018	Calculus I	*Instructor*

Williams College

Fall 2017	Calculus I	*Instructor*
Spring 2017	Commutative Algebra	*Instructor*

The University of Texas at Austin

Spring 2016	Plan II Honors Introduction to Mathematics	*Teaching Assistant*
Fall 2014	Vector Calculus	*Teaching Assistant*
Spring 2014	Calculus I	*Teaching Assistant*
Fall 2013	From Numbers to Chaos	*Teaching Assistant*
Summer 2013	Introduction to Mathematics	*Teaching Assistant*
Spring 2013	Introduction to Mathematics	*Teaching Assistant*
Fall 2015	Real Analysis I	*Grader*
Summer 2014	Introduction to Number Theory	*Grader*

| Summer 2014 | Linear Algebra | *Grader* |
| Summer 2014 | Applied Linear Algebra | *Grader* |

Grants & Funding

Summer 2023	Lenfest Scholarship Grant
Summer 2022	Lenfest Scholarship Grant
Summer 2021	Lenfest Scholarship Grant
Summer 2020	Lenfest Scholarship Grant
Summer 2019	Lenfest Scholarship Grant

Honors, Awards, and Fellowships

The University of Texas at Austin

2017	Frank Gerth III Dissertation Award
2015	Summer Mathematics Department Fellowship
2011	Diversity Recruitment Fellowship Competitive fellowship awarded to select applicants.
2011	Departmental Fellowship

Virginia Commonwealth University

| 2011 | Pure Mathematics Award |

Invited Talks, Presentations, and Panels

May 2022	*Structural invariants for certain Noetherian orders* NAM FCRTE
October 2021	*Undergraduate Colloquium Talk* Carleton College
May 2021	*Structual Invariants on Noetherian Partial Orders* FCRTE (Virtual)
March 2021	*Structural Invariants of Noetherian Partial Orders* Virginia Tech (Virtual)
January 2020	*Growth Through Outreach: How I Became a Better Mathematician and Teacher Through Outreach Programs* JMM 2020
July 2019	*Enlarging Localized Polynomial Rings* Pomona College
July 2019	*Sequences, Σums, Sounds, and Sloanes* Pi Mu Epsilon Honors Induction Ceremony University of California, Riverside
April 2019	*Enlarging Localized Polynomial Rings* NAM Faculty Conference in Research and Teaching Excellene Texas Southern University
April 2018	*Sequences, Σums, Sounds, and Sloanes* Pi Mu Epsilon Honors Induction Ceremony Virginia Commonwealth University
February 2018	*Results concerning the spectrum of Noetherian rings* The University of Missouri

January 2018	*Noetherian Spectra* AMS Special Session on SMALL Undergraduate Research
January 2018	*Results concerning the spectrum of Noetherian rings* Math Alliance AMS Special Session
January 2018	*Enlarging Noetherian Rings While Preserving Their Spectrum* Granville-Brown-Haynes Session National Association of Mathematicians
November 2017	*The Doctoral Experience* Panel Moderator. Math Alliance Conference, St. Louis, MO.
September 2017	*Partially Ordered Sets and Noetherian Rings* Union College, Schenectady, NY.
April 2017	*Mentoring Panel* Underrepresented Students in Topology and Algebra Research Symposium Amherst College, Amherst, MA.
March 2017	*Semi-Local Two-Dimensional Noetherian Spectra* Commutative Algebra Seminar Purdue, West Lafayette, IN.
April 2016	*Cardinality Restrictions on Semi-Local Spectra* Underrepresented Students in Topology and Algebra Research Symposium Sam Houston State University, Huntsville, TX.
April 2015	*Prime intersections, Noetherian rings, and N-posets: A survey* Underrepresented Students in Topology and Algebra Research Symposium Florida Gulf Coast University, Ft. Myers, FL.
January 2014	*Integer Sequences and Algebraic Identities* Washington and Lee University, Lexington, VA.

Service to Mathematics

National Association of Mathematicians

Winter 2020-	Treasurer & Member of the Board of Directors
Spring 2018-Spring 2019	MAD Pages Editorial Board Updating and verifying Scott Williams' database on doctoral recipients of the African diaspora

Williams College

Spring 2018	Second Reader for Undergraduate Thesis Student: Weitao Zhang
Spring 2018	Undergraduate Research Supervisor Student: Eli Cytrnbaum
Fall 2017	Calculus Reform Committee
Fall 2017	Invited Guest, AWM Lunch
Fall 2017	Second Reader for Undergraduate Thesis Student: Sarah Fleming
Fall 2016	Co-organizer for *MathBlast!* *MathBlast!* is a day-long mathematics workshop for 10th graders held at and organized by Williams College.

The University of Texas at Austin

2015	Ombudsperson and Prerequisites Officer for Department of Mathematics Duties: Hear grievances involving mathematics courses and verify prerequisites.
2015	Coordinator for Mathematics Club
2014-2015	Junior Number Theory Seminar Organizer and Chair
2013-2014	Directed Reading Program (DRP) Mentor Student: Valentino Rodriguez DRP is a program for undergraduates to explore upper-level mathematics with graduate students

Professional Memberships

2020-current	QSIDE
2019-current	Project NExT
2019-current	Mathematical Association of America
2018-current	National Association of Mathematicians
2014-current	National Alliance for Doctoral Studies Mentor: Susan Loepp
2011-current	American Mathematical Society

References

Raymond Heitmann
Professor of Mathematics at The University of Texas at Austin
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Edray Goins
Professor of Mathematics at Pomona College
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Susan Loepp
Chair and Professor of Mathematics at Williams College
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Stephen McAdam
Professor of Mathematics (*retired*) at The University of Texas at Austin
mcadam@math.utexas.edu

Thomas Chen
Chair and Associate Professor of Mathematics at The University of Texas at Austin
chair@math.utexas.edu or tchen@math.utexas.edu

Reva Kasman
Associate Professor of Mathematics at Salem State University
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