

# RYAN STERLING HIGGINBOTTOM

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Department of Mathematics  
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## EDUCATION

- Ph.D. in Mathematics, August 2005  
University of Virginia — Charlottesville, Virginia  
Dissertation advisor: Nicholas J. Kuhn  
Dissertation title: *The nilpotent filtration in group cohomology*
  - M.S. in Mathematics, May 2001  
University of Virginia — Charlottesville, Virginia
  - B.S. in Mathematics, May 1999  
Bucknell University — Lewisburg, Pennsylvania  
Graduated *magna cum laude* with departmental honors in Mathematics  
and minors in Greek and Physics
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## EMPLOYMENT

- Assistant Professor  
Washington & Jefferson College — Washington, Pennsylvania  
August 2007 – present  
Classes: Calculus I and II; Algebraic Structures; Topology;  
Freshman Forum; Intro. to Scientific Typesetting; Precalculus
  - Visiting Assistant Professor  
Kalamazoo College — Kalamazoo, Michigan  
September 2005 – June 2007  
Classes: Calculus I, II, and III; Linear Algebra and Vectors;  
Applied Statistics I
  - Graduate Instructor  
University of Virginia — Charlottesville, Virginia  
August 2000 – May 2005  
Taught Calculus I, Applied Calculus I and II
  - Graduate Teaching Assistant  
University of Virginia — Charlottesville, Virginia  
August 1999 – May 2000
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## CITIZENSHIP

- United States of America
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## PUBLICATIONS

- *Quantum projective 3-spaces which embed weighted quantum planes*, Rocky Mountain J. of Math. **35** (2005), no. 2, 415–444. (with G. Dietz and D. R. Stephenson)
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## TALKS

- “Mastery Exams in Calculus I: A Preliminary Report”  
April 4, 2009 — Wheeling, West Virginia  
Allegheny Section Meeting of the MAA, Wheeling Jesuit University

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TALKS,  
CONTINUED

- “The Fundamental Theorem of Algebra: History, Proofs, and Applications”  
September 21, 2006 — Albion, Michigan  
Mathematics and Computer Science Colloquium, Albion College
- “Most Things Change, but One Remains the Same: Fixed Point Theorems and Shapes in Space”  
September 14, 2006 — Grand Rapids, Michigan  
Mathematics and Statistics Colloquium, Calvin College
- “The Fundamental Theorem of Algebra: History, Proofs, and Applications”  
April 18, 2006 — Holland, Michigan  
Mathematics Department Colloquium, Hope College
- “Most Things Change, but One Remains the Same: Fixed Point Theorems and Shapes in Space”  
March 24, 2006 — Kalamazoo, Michigan  
Pi Mu Epsilon Seminar, Western Michigan University
- “An introduction to topological groups”  
December 5, 2005 — Lewisburg, Pennsylvania  
Bucknell University
- “A question of dimension in group cohomology”  
September 15, 2005 — Kalamazoo, Michigan  
Algebra/Topology Research Seminar, Western Michigan University
- “The action of  $\text{Out}(P)$  on  $H^*(P; \mathbb{F}_p)$ ”  
January 6, 2005 — Atlanta, Georgia  
Joint meetings of the AMS and MAA
- “Dimension theory in group cohomology”  
April 24, 2004 — Salisbury, Maryland  
MD-DC-VA Section of the MAA, Spring 2004 Meeting
- “Quantum projective three spaces which embed weighted quantum planes”  
(with G. Dietz)  
January 14, 1999 — San Antonio, Texas  
Joint meetings of the AMS and MAA

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HONORS AND  
AWARDS

- Selected to participate in faculty seminar at Transylvania University  
“Twenty-First Century Liberal Education: A Contested Concept”  
July 23–26, 2009 — Lexington, Kentucky
- Department of Mathematics Graduate Teaching Assistant Award  
2003–2004, 2004–2005, Finalist
- Department of Mathematics Dissertation Fellowship  
Spring 2004, Recipient
- The Seven Society Graduate Fellowship for Superb Teaching  
Spring 2001, Finalist
- Phi Beta Kappa  
Elected Spring 1999

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PROFESSIONAL  
DEVELOPMENT

- Attended Allegheny Section Meeting of the MAA  
April 3–4, 2009 — Wheeling, West Virginia
- Attended joint meetings of the AMS and MAA  
January 5–8, 2009 — Washington, D.C.

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PROFESSIONAL  
DEVELOPMENT,  
CONTINUED

- Attended Allegheny Section Meeting of the MAA  
April 11–12, 2008 — Pittsburgh, Pennsylvania
- Attended joint meetings of the AMS and MAA  
January 6–9, 2008 — San Diego, California
- Attended Conference on Undergraduate Research in Mathematics  
November 9–10, 2007 — State College, Pennsylvania
- Attended Michigan Undergraduate Mathematics Conference  
October 21, 2006 — Holland, Michigan
- Attended MINExT Symposium  
May 4, 2006 — Grand Rapids, Michigan
- Participant in Algebra/Topology Seminar  
Western Michigan University — Kalamazoo, Michigan  
September 2005 – May 2006
- Attended joint meetings of the AMS and MAA  
January 12–15, 2006 — San Antonio, Texas
- Organizer of Graduate Seminar  
University of Virginia — Charlottesville, Virginia  
August 2002 – May 2005
- Participant in Topology Seminar  
University of Virginia — Charlottesville, Virginia  
August 2001 – May 2005
- Attended joint meetings of the AMS and MAA  
January 5–8, 2005 — Atlanta, Georgia
- Attended Spring 2004 meeting of MD-DC-VA Section of the MAA  
April 23–24, 2004 — Salisbury, Maryland
- Attended Teaching Portfolio Workshop  
University of Virginia — May 2003
- Attended joint meetings of the AMS and MAA  
January 15–18, 2003 — Baltimore, Maryland
- Member of the American Mathematical Society (AMS)
- Member of the Mathematical Association of America (MAA)