Jonathan Totushek
Curriculum Vita, January 16, 2017

Contact

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Education

SUMMER 2015	Ph.D. in MATHEMATICS, **North Dakota State University**, Fargo ND.
	Advisor: Sean Sather-Wagstaff
	Dissertation: "Homological Dimensions with Respect to a Semidualizing Complex"
SPRING 2009	Bachelor of Science in MATHEMATICS
	Cum Laude, **Regis University**, Denver CO.
	Advisor: James Seibert

Positions in Mathematics

FALL 2016 - PRESENT	Assistant Professor at UNIVERSITY OF WISCONSIN-SUPERIOR
FALL 2015 - SPRING 2016	Visiting Assistant Professor at UNIVERSITY OF WISCONSIN-SUPERIOR
FALL 2013 - SUMMER 2015	Graduate Research Assistant at NORTH DAKOTA STATE UNIVERSITY Research funded from North Dakota EPSCoR.
SUMMER 2011 - SUMMER 2012	NDSU Mathematics Computer Lab Manager
SPRING 2010 - PRESENT	Mathematics Genealogy Project Data Manager www.genealogy.math.ndsu.nodak.edu
FALL 2009- SUMMER 2013	Graduate Teaching Assistant at NORTH DAKOTA STATE UNIVERSITY

Awards and Acknowledgments

JULY 2013:	North Dakota EPSCoR Doctoral Disertation Assistantship

Research

INTERESTS: Commutative Algebra, Homological Algebra, Ring Theory

PUBLICATIONS:

1. *Cosmic ray muon flux at the Sanford Underground Laboratory at Homestake*, with F. Gray, C. Ruybal, D.-M. Mei, K. Thomas, and C. Zhang, Nucl. Instr. and Meth. A (2011), doi:10.1016/j.nima.2011.02.032
2. *Using semidualizing complexes to detect Gorenstein rings*, with S. Sather-Wagstaff, Archiv der Mathematik (Basel), (2015).
3. *Homological dimensions with respect to a semidualizing complex*, Journal of Commutative Algebra (2016).
4. *Complete intersection homological dimensions with respect to a semidualizing complex*, with S. Sather-Wagstaff In preparation.
5. *A variation on the complete intersection injective dimension*, with S. Sather-Wagstaff In preparation.

Invited Conference Lectures

2009 -   APS Special Session on Dark Matter Searches,
          APS April Meeting, Denver, CO
2014 -   AMS Special Session on Commutative Ring Theory,
          University of Wisconsin-Eau Clair
2015 -   AMS Special Session on Syzygies,
          Joint Mathematics Meetings, San Antonio, TX
2016 -   AMS Special Session on Commutative Algebra,
          University of Georgia, Athens, GA
          AMS Special Session on Commutative Ring Theory,
          State University of New York, Stony Brook, NY
          AMS Special Session on Commutative Ring Theory,
          North Dakota State University, Fargo, ND
          AMS Special Session on Homological Methods in Commutative Algebra,
          North Carolina State University, Raleigh, NC

Department Seminars and Colloquia

2013 -   Mathematics Department Junior Colloquium, North Dakota State University
2014 -   Algebra and Discrete Mathematics Seminar, North Dakota State University

Other Lectures

2011 -   NDSU Math Club, *Calculating π*
2015 -   NDSU Math Club, *"Sweet" Clyde's Inversion Theorem (a.k.a. Keeler's Theorem)*
          UW-Superior Math and Computer Science Club, *The Game of Nim*

Teaching at University of Wisconsin-Superior

As Primary Instructor:		
	Calculus and Analytic Geometry II	(Fall 2015 & Fall 2016)
	Introduction to Abstract Mathematics	(Fall 2015 & Spring 2016)
	Topics in Geometry	(Fall 2015)
	Introduction to Contemporary Mathematics	(Spring 2016 & Fall 2016)
	Statistics	(Fall 2016)
	Introduction to Computer Science	(Fall 2016)

Teaching at North Dakota State University

As Primary Instructor:	Trigonometry	(Summer 2013)
	Applied Calculus	(Summer 2010)
	Calculus II	(Summer 2012)
	Calculus III	(Summer 2011)

As Recitation Instructor:	College Algebra	(Spring 2013)
	Trigonometry	(Fall 2010 & Spring 2013)
	Applied Calculus	(Fall 2009 & Fall 2011)
	Calculus I	(Fall 2010)
	Calculus II	(Fall 2009, Spring 2010 & Spring 2012)
	Calculus III	(Spring 2011)

Department Service

Fall 2013 - Spring 2015:	Organizer of the NDSU Junior Colloquium
	www.ndsu.nodak.edu/pubweb/~totushek/colloquiumjr/
Fall 2013 - Spring 2014:	New Faculty Search Committee Member (NDSU)
Fall 2015 - Present	Attend and participate at UW-S department meetings
Spring 2016 - present	Organizer of the UW-Superior High School Math Meet
Fall 2016 - present	Organizer of the Duluth Superior Sonia Kovalevsky Day
Fall 2016 - present	UW-S department liaison for recruitment and retention
Fall 2016 - present	Advisor to the UW-S Mathematics and Computer Science Club

Service to the Community

April 2015:   Math Fair presenter - visit and present mathematics at local elementary schools.

Memberships

American Mathematical Society