

PAOLO MANTERO

University of Arkansas
Department of Mathematical Sciences
Fayetteville, AR 72703

Email address: pmantero@uark.edu
Office Location: SCEN 417
Webpage: <http://cavern.uark.edu/~pmantero/>

EDUCATION

Ph. D. in Mathematics, advisor: <i>Prof. Bernd Ulrich</i>	Purdue University	August 2012
M. Sc. in Mathematics, <i>summa cum laude</i>	University of Genova (Italy)	July 2006
B. Sc. in Mathematics, <i>summa cum laude</i>	University of Genova (Italy)	September 2004

ACADEMIC EMPLOYMENT

Assistant Professor	University of Arkansas	Aug. 2015 – present
Visiting Assistant Professor	University of California at Riverside	Jan. 2013 - July 2015
Post-doctoral Research Member	Math. Sc. Res. Inst. (MSRI), Berkeley, CA	Fall 2012

HONORS AND GRANTS

New Faculty Commendation	U. Arkansas Faculty Support Center	September 2017
Excellence in Teaching Award	UC Riverside, Mathematics Department	June 2014, June 2015
AMS-Simons Travel Grant	American Mathematical Society	July 2013–July 2015
Post-Doctoral Research Membership	MSRI	Fall 2012
Bilsland Dissertation Fellowship	Purdue University, College of Science	Aug. 2011-Aug. 2012
MRC Research Travel Grant	American Mathematical Society	June-July 2010

PUBLICATIONS

13. *The projective dimension of 3 cubics is at most 5*, with Jason McCullough, 35 pages, submitted.
12. *A finite classification of (x, y) -primary ideals of low multiplicity*, with Jason McCullough, to appear on Collect. Math.
11. *A tight bound on the projective dimension of 4 quadrics*, with Craig Huneke, Jason McCullough and Alexandra Seceleanu, to appear on J. Pure and Appl. Algebra.
10. *Chudnovsky's conjecture for very general points in \mathbb{P}^N* , with Louiza Fouli and Yu Xie, J. Algebra **498** (2018), 211–227.
9. *Hypergraphs with high projective dimension and 1-dimensional Hypergraphs*, with Kuei-Nuan Lin, 22 pages, Internat. J. Algebra Comput. **27** (2017), 591–617.
8. *Projective dimension of string and cycle hypergraphs*, with Kuei-Nuan Lin, Comm. Algebra **44** (2016), 1671–1694.
7. *Arithmetical rank of strings and cycles*, with Kyouko Kimura, J. Commut. Algebra **9** (2017), 89–106.
6. *Multiple structures with arbitrary large projective dimension supported on linear subspaces*, with Craig Huneke, Jason McCullough and Alexandra Seceleanu, J. Algebra **447** (2016), 183–205.
5. *Generalized stretched ideals and Sally's Conjecture*, with Yu Xie, Journal of Pure and Applied Algebra **200** (2016), 1157 – 1177.
4. *A multiplicity bound and a criterion for the Cohen-Macaulay property*, with Craig Huneke, Jason McCullough and Alexandra Seceleanu, Proc. Amer. Math. Soc. **143** No. 6 (2015), 2365 – 2377.
3. *Ubiquity of complete intersection liaison classes*, with Mark Johnson, Illinois J. Math. **58**, No. 3 (2014), 647 – 663.
2. *The projective dimension of codimension two algebras presented by quadrics*, with Craig Huneke, Jason McCullough and Alexandra Seceleanu, J. Algebra **393** (2013), 170-186.

1. *On the Cohen-Macaulayness of the conormal module of an ideal*, with Yu Xie, *J. Algebra* **372** (2012) 35-55.

INVITED TALKS

43. Algebra Seminar (upcoming)	University of Michigan	April 5, 2018
42. AMS Special Session	University of North Texas	September 10, 2017
41. BIRS-CMO Workshop (declined)	Oaxaca (Mexico)	May 14, 2017
40. AMS Special Session	Hunter College, NY	May 6, 2017
39. Algebra Seminar	Tulane University	March 23, 2017
38. Commutative Algebra Seminar	University of California, Riverside	May 25, 2016
37. AMS Special Session	University of Georgia	March 5, 2016
36. Algebra Seminar	University of Missouri, Columbia	February 15, 2016
35. Colloquium Talk	DePaul University	February 2, 2015
34. Colloquium Talk	New Mexico State University	January 16, 2015
33. JMM Special Session	San Antonio, TX	January 10–13, 2015
32. Colloquium Talk	University of Arkansas	December 11, 2014
31. AMS Special Session	San Francisco State University	October 26, 2014
30. AMS Special Session	University of New Mexico	April 6, 2014
29. Commutative Algebra Seminar	Purdue University	March 13, 2014
28. Algebra Seminar	New Mexico State University	March 3, 2014
27. Seminario di Algebra e Geometria	University of Genova (Italy)	December 17, 2013
26. Algebra Seminar	University of Arkansas	October 28, 2013
25. AMS Special Session	University of Louisville	October 6, 2013
24. Commutative Algebra Seminar	Purdue University	September 10, 2013
23. Commutative Algebra Seminar	Purdue University	March 26, 2013
22. SLAM '13 (plenary speaker)	University of Arizona	March 3, 2013
21. Algebra Seminar	New Mexico State University	February 25, 2013
20. Joint Mathematics Meeting	San Diego, CA	January 9, 2013
19. Commutative Algebra Seminar	Purdue University	November 19, 2012
18. Algebra Seminar	Tulane University	October 24, 2012
17. Mathematical Sciences Research Institute Seminar	MSRI (Berkeley, CA)	October 12, 2012
16. Mathematical Sciences Research Institute Seminar	MSRI (Berkeley, CA)	October 1, 2012
15. Commutative Ring Theory Seminar	University of Illinois	April 12, 2012
14. Commutative Algebra Seminar	University of Nebraska	April 4 and 5, 2012
13. AMS Special Session	University of Kansas	March 30, 2012
12. Algebra Seminar	New Mexico State University	March 7, 2012
11. Algebra Seminar	University of Kansas	February 22, 2012.
10. Algebra and Geometry Seminar	University of Kentucky	January 26, 2012
9. Seminario di Algebra e Geometria	University of Genova (Italy)	January 12, 2012
8. Seminario di Algebra e Geometria	University of Genova (Italy)	January 10, 2012
7. Algebra and Geometry Seminar	University of Basel (Switzerland)	December 16, 2011
6. Algebraic Geometry Seminar	University of Notre Dame	November 9, 2011
5. Algebra and Geometry Seminar	University of Kentucky	November 1, 2011
4. Algebra Seminar	University of Kansas	October 18, 2011
3. AMS Special Session	University of Nebraska	October 15, 2011
2. Algebraic Geometry Seminar	University of Notre Dame	October 12, 2010
1. Algebraic Geometry Seminar	University of Notre Dame	April 7, 2010

PROFESSIONAL SERVICE

Co-organizer of the following mathematical events, conferences and workshops:		
Southwest Local Algebra Meeting – SLAM '18 (upcoming)	University of Arkansas	April 2018
U of A 42nd Spring Lecture Series (upcoming)	University of Arkansas	March 2018
U of A 41st Spring Lecture Series	University of Arkansas	March 2017

AMS Meeting Special Session
AMS Meeting Special Session

Loyola University, Chicago, IL
UC Riverside

October 3–4, 2015
November 2–3, 2013

Algebra Seminar
Commutative Algebra Seminar

University of Arkansas
University of California at Riverside

2015 – present
2013 – 2015

Referee for *J. Algebra*
Referee for *J. Algebra Appl.*
Referee for *J. Algebraic Combinatorics*
Referee for *J. Comm. Algebra*
Referee for *Glasgow Math. Journal*
Referee for *IJAC – Internat. J. Algebra Comput.*
Referee for *Proc. Amer. Math. Soc.*
Reviewer for *Math. Zentralblatt*
Reviewer for *Math. Reviews*

2011 – present
2014 – present

MEMBERSHIP

American Mathematical Society, since 2006.