

Timothy Kohl

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EDUCATION:

The State University of New York at Albany; Albany, NY

Ph.D. May 1996
MA May 1992

- Dissertation title: "Classification of Abelian Hopf Algebra Forms Acting on Radical Extensions"
- Dissertation Advisor: Lindsay N. Childs

The College of Saint Rose; Albany, NY

BA in Interdepartmental Studies - Math/Physical Science (Magna Cum Laude), May 1990
Minor in Computer Information Systems

WORK EXPERIENCE:

Analyst/Consultant - Information Services & Technology - Boston University
May 1998 - present

- Currently a member of the Desktop Services Group assigned to the mathematics department.

Lecturer - Department of Mathematics and Statistics - Boston University
September 1999 - present

- At the same time as I manage the computer systems for the B.U. Mathematics Department, I have also taught various undergraduate mathematics courses including calculus, abstract algebra, linear algebra and discrete math.

Lecturer - The State University of New York at Albany
September 1997 - May 1998, May 1996 - June 1996

Adjunct Faculty - The College of Saint Rose
September 1997 - December 1997, September 1996 - December 1996

Adjunct Faculty - The State University of New York at Albany
Project Renaissance - Team A
January 1997 - May 1997

Teaching Assistant, The State University of New York at Albany
September 1990-May 1996

PROFESSIONAL ACTIVITY:

Academic

- Member of Ph.D. thesis committee of Igor Mencattini at Boston University, April 2005.
- Member of Senior thesis committee for Brian Hepler at Boston University, Spring 2012.

Conferences

- Presented “Multiple Holomorphs of Dihedral and Quaternionic Groups”
Tufts University Algebra Seminar
March 25, 2015
- Presented “Multiple Holomorphs of Dihedral and Quaternionic Groups”
Southern Regional Algebra Conference
April 26, 2014
- Co-organizer of the special session on Hopf Algebras and Their Applications
at the AMS Spring Eastern Sectional Meeting at Boston College in April 2013.
- Presented “Hopf Galois Structures Arising from Mutually Normalizing Permutation Groups”
AMS Spring South Eastern Sectional Meeting
Special Section on Hopf Algebras and Galois Module Theory - March 10, 2012
- Presented “Regular Permutation Groups of order mp ”
AMS Spring Eastern Sectional Meeting
Special Section on Hopf Algebras and Galois Module Theory - April 4, 2009
- Co-organizer of the special session on Hopf Algebras and Galois Module Theory
at the AMS Spring Eastern Sectional Meeting at Univ. of New Hampshire in April 2006.
Presented ‘Groups of Order $4p$, Twisted Wreath Products and Hopf Galois Theory’
- Presented “Counting Hopf Galois Structures on Dihedral and Quaternionic Extensions”
AMS Spring Eastern Sectional Meeting
Special Section on Hopf Algebras and Galois Module Theory - April 12, 2003
- Chaired Section on Applications of Maple in Abstract Algebra
and presented “Group Rings and Hopf Galois Theory in Maple” at the
Maple Summer Workshop and Symposium, Rensselaer Polytechnic Institute - August 9-13, 1994.

Publications

- “Hopf-Galois Structures Arising From Groups with Unique Subgroup of Order p ”
(submitted/under revision)
- “Multiple Holomorphs of Dihedral and Quaternionic Groups”
(to appear) Communications in Algebra
- “Regular Permutation Groups of Order mp and Hopf-Galois Structures”
Algebra Number Theory 7-9 (2013), 2203–2240. DOI 10.2140/ant.2013.7.2203
- “When Abelian = Hausdorff”
College Math Journal, 43 No.3, May 2012 213-215
- “Groups of Order $4p$, Twisted Wreath Products and Hopf Galois Theory”
Journal of Algebra, 314, (2007), 42-74.
- “Cyclotomic Swan Subgroups and Primitive Roots” (with D. Replogle)
Finite Fields and Their Applications, 11, (2005) 655-666
- “Computation of Several Cyclotomic Swan Subgroups” (with D. Replogle)
Mathematics of Computation, 71, (2002), 343-348
- “Classification of the Hopf Galois Structures on Prime Power Radical Extensions”
J. Algebra, 207 (1998), 525-546.
- “Group Rings and Hopf Galois Theory in Maple”, in
Maple V: Mathematics and Its Application, Proceedings of the Maple Summer Workshop
and Symposium, Rensselaer Polytechnic Institute, Troy, New York, August 9-13, 1994,
Robert J. Lopez Editor, Birkhäuser Boston, 1994

AMS Math Reviews Written

- MR2764927,MR2760627,MR2672308,MR2442164,MR2400745,MR2225761,MR2198393
- MR2363137,MR2336557,MR2337749,MR2287703,MR2274716,MR2185622,MR2166794
- MR2824524,MR2780619,MR2824524,MR2860689,MR2901229,MR2952904

Seminars

- State University of New York At Albany - Algebra and Topology Seminar
“Regular Permutation Groups of Order mp and Hopf Galois Structures“ - April 11, 2013
- University of Massachusetts at Boston - Mathematics Seminar
“Regular Permutation Groups of Order mp “ - April 5, 2010
- Montgomery Area Mathematics Seminar (Auburn University Montgomery)
“Groups of Order $4p$, Wreath Products and Hopf Galois Theory“ - October 19, 2005
- Boston University Algebra Seminar
“Groups of Order $4p$, Wreath Products and Hopf Galois Theory“ - October 17, 2005
- Boston University Electro-Physics Brown Bag Lunch
“Hopf Algebras - Basic Notions“ - September 23, 2002
“Hopf Algebras - Radical Notions“ - October 3, 2002
- Boston University Algebra Seminar
“Hopf Galois Theory for Fields“ - March 22, 1999
- Capital Region Algebra Number Theory Seminar, Union College, Schenectady, New York
“Classification of Hopf Galois Structures on Prime Power Radical Extensions“ - May 15, 1996

Assistant Managing Editor - The New York Journal of Mathematics
Summer 1997 - present

- The NYJM (<http://nyjm.albany.edu>) is the first electronic general mathematics journal.

COMPUTER SKILLS AND EXPERIENCE:

- I am currently the manager of the computer systems for the Department of Mathematics and Statistics at Boston University. These consist of Solaris servers and workstations as well as Linux and Windows workstations and Macintosh units used by the faculty and staff.
- In my work for the NYJM, I designed and maintain the on-site search engine which is based on the Glimpse database package.
- I am skilled in the following computer languages: Perl, C, assembly.
- I have experience using and administering the following operating systems Solaris 2.x, Linux and Windows 9x/NT/2000/XP.
- I also have experience using computer algebra systems for research and educational purposes.