

Katherine Bird

Contact Information

Northeastern Illinois University Department of Mathematics

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Education

University of Illinois at Chicago

PhD in Pure Mathematics
MS in Mathematics
BS in Mathematics

Chicago, Illinois

May, 2012
December, 2004
May, 2000

Mathematics Research and Collaboration

- Oppland-Cordell, S. & Bird, K. (accepted in 2018). *Latina/o STEM Majors' Perspectives of Experiences Supporting their Mathematical Success*. To appear in the Proceedings of the 40th Conference of the International Group for the Psychology of Mathematics Education (PME). Greenville, SC: PME.
- Bird, K, Oppland-Cordell, S., and Hibdon, J., The EMERGE Summer Program: Supporting Incoming Freshmen's Success in Mathematics Development Coursework. *NCLCA The Learning Assistance Review*. Fall 2016 Edition.
- Bird, K. A. Dade's Ordinary Conjecture for the Finite Special Unitary Groups: Part III, Technical Report 17-1229, Northeastern Illinois University, 2017.
- Bird, K. A. Dade's Ordinary Conjecture for the Finite Special Unitary Groups: Part II, Technical Report No. 16-1229, Northeastern Illinois University, 2016.
- Bird, K. A. Dade's Ordinary Conjecture for the Finite Special Unitary Groups: Part I, Technical Report No. 15-1231, Northeastern Illinois University, 2016.
- PhD thesis: "*Dade's Conjecture in the Finite Special Unitary Groups*".
- Expository Master's thesis: "*Representation Theory of the Symmetric Group and the Littlewood Richardson Rule*".
- Seminar co-presenter on Coxeter groups.

Conferences accepted and/or attended

2018 Invited speaker at PME-NA40 Greenville, South Carolina.
2017 Invited speaker at Mathematics Education beyond 16: Pathways and Transitions in Birmingham, England.
2016 Invited speaker at NEIU Faculty Symposium.
2015 Invited speaker at iMATHination.
2014 Invited speaker at NEIU Faculty Symposium.
2014 Invited speaker at NEIU Pedroso Center *The Craftier Side of Math*.
2012 Invited speaker at Concordia University Chicago.
2012 Invited speaker at Special Session of AMS in Tucson, Arizona.
2011 Invited speaker at York College Women in Math Mini-conference in Queens, New York.
2008 Glauberian conference at University of Chicago.
2007 Representation theory workshop at MSRI in Berkeley, California.
2007 Representation theory conference at University of Florida, Gainesville.

Memberships

American Mathematical Society
Association for Women in Mathematics

Awards and Fellowships

Three year Vigre Fellowship funded by the National Science Foundation for graduate study in math at UIC
Louise Hayes Award for women displaying excellence in undergraduate math at UIC
Herbert Alexander Award for excellence in undergraduate math at UIC
Academic Excellence tuition waiver at Harold Washington City College

Teaching

- Fall 2013 – Present: NEIU Assistant Prof. Courses include:
 - Abstract Algebra,
 - Galois Theory,
 - WIP Intro to Advanced Math,
 - History of Math,

- Foundations of Geometry,
 - Math for Elementary Tchrs I,
 - Gmtry Msmt Elem Mid Sch Tchrs.,
 - Calculus Cncpts Mid Schl Tchg,
 - Prob Stat Elem Mid Schl Tchrs.,
 - Cncpt Dscrt Math Mid Sch Tchrs.
- Fall 2012 – Spring 2013: NEIU Instructor: History of Math, Foundations of Geometry, Ord. Diff. Eq., and Number Theory, Foundations of Algebra, Theory of Equations.
 - Spring 2012: UIC Visiting Lecturer: pre-calculus and calculus I.
 - Spring 2011: Loyola Instructor: pre-calculus, applied calculus II, calculus I.
 - Fall 2010: Loyola Instructor: pre-calculus, applied calculus I, calculus I. Summer 2010: UIC Visiting Lecturer: Summer Enrichment Workshop.
 - Spring 2010: UIC Visiting Lecturer: pre-calculus, multi-variable calculus.
 - Fall 2009: UIC Visiting Lecturer: pre-calculus, calculus II.
 - Teaching assistant coordinator (2 semesters).
 - TA Lecturer: multivariable calculus (2 semesters), UIC summer bridge program (4 summers).
 - Founding TA co-coordinator for Math Learning Center at UIC (2 semesters).
 - TA: pre-calculus (numerous), pre-calculus emerging scholars program (numerous), intro to probability & statistics (1semester).
 - Undergraduate mentor for abstract algebra (1 semester).