

Manizheh(Manijeh) Nafari

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Research Interests **Non-commutative Algebra, (Quadratic) Regular Algebras, Non-commutative Algebraic Geometry**

Employment **Tenure-Track Assistant Professor, Aug. 2016 - Present.**
Department of Mathematics & Computer Science, Central State University (CSU)

Visiting Assistant Professor, Sept. 2013 - July 2014. Department of Mathematical Sciences, DePaul University

Visiting Assistant Professor, Aug. 2012 - May 2013.
Department of Mathematics and Statistics, University of Toledo (UT)

Adjunct Faculty, Aug. 2011 - Aug. 2012.
Department of Mathematics, University of Texas at Arlington (UTA)

Adjunct Faculty, Jan. 2012 - Aug. 2012.
Department of Mathematics, Tarrant County College(TCC) Southeast Campus

Education **Ph.D. in Mathematics, Aug. 2007 - Aug. 2011. University of Texas at Arlington (UTA), Arlington, Texas.**
Thesis: Regular Algebras Related to Regular Graded Skew Clifford Algebras of Low Global Dimension.
Supervisor: Professor Michaela Vancliff.

M.Sc. in Pure Mathematics, 2001. Tarbiat Modarres University, Tehran, Iran.
Thesis: Catenarity, Gelfand-Kirillov Dimension, and Skew Polynomial Rings. Supervisor: Dr. Ahmad Mousavi.

B.Sc. in Pure Mathematics, 1998. Sharif University of Technology, Tehran, Iran.
Thesis: Geometry Course Ware.
Supervisor: Dr. Yahya Tabesh.

Publications and Preprints

- *Geometry of Regular Algebras of Global Dimension 4 related to Graded Skew Clifford Algebras of Global Dimension 3*, <https://goo.gl/K3mdQo>.
- **Introduction to Noncommutative Algebraic Geometry**, <https://goo.gl/UQoo6s>.
- *Graded Skew Clifford Algebras that are Twists of Graded Clifford Algebras*, with M. Vancliff, *Communications in Algebra*, 43 (2015), 719–725.
- *Classifying Quadratic Quantum P^2 s By Using Graded Skew Clifford Algebras*, with M. Vancliff and J. Zhang, *Journal of Algebra*, 346 (2011), 152–164.
- *Regular Algebras Related to Regular Graded Skew Clifford Algebras of Low Global Dimension*, Ph.D. Thesis, August 2011, available at <https://goo.gl/SvCPHa>.

Teaching Experience

Central State University:

- Abstract Algebra I: Fall 2017, Fall 2016.
- Foundations of Mathematics: Fall 2016.
- Calculus II: Spring 2017.
- Calculus I: Fall 2017, Spring 2017.
- Modern Applications of Mathematics: Fall 2017 (two sections), Spring 2017 (two sections), Fall 2016 (two sections).

DePaul University:

- Discrete Mathematics II: Fall 2013 (35 Students).
- Discrete Mathematics I: Winter 2014 (number of students in two sections: 34, 34), Fall 2013 (35 students).
- Business Calculus II: Winter 2014 (39 students).
- Business Calculus I: Spring 2014 (41 Students), Fall 2013 (40 students).
- Precalculus: Spring 2014 (29 Students).

University of Toledo (UT):

- Introduction to Abstract Algebra: Spring 2013 (18 students).
- Calculus I - Engineering Tech: Fall 2012 (35 students).
- Calculus I - for Life Sciences with Applications: Fall 2012 (40 students).
- College Algebra: Spring 2013 (numbers of students in two sections:38,40), Fall 2012 (40 students).

University of Texas at Arlington (UTA):

- Mathematics for Economics and Business Analysis (Business Calculus): Spring 2011 (65 students), Fall 2010 (63 students), Summer 2010 (12 students) and Spring 2010 (19 students).
- Precalculus II: Summer 2012 (20 Students).
- Precalculus I: Spring 2012 (74 students), Fall 2011 (number of students in two sections: 61,61).
- Trigonometry: Summer 2011 (15 Students), Fall 2010 (60 students).
- College Algebra: Fall 2009 (numbers of students in two sections:75,58), Spring 2009 (44 students), and Fall 2008 (60 students).

Tarrant County College (TCC):

- Trigonometry: Summer I 2012 (30 Students), Summer II 2012 (27 Students).
- Intermediate Algebra: Spring 2012 (First 8-week: 23 Students, Second 8-week: 25 Students).
- Prealgebra: Spring 2012 (12-week: 25 Students).
- GRE Mathematics, Continuing Education, March-June 2012 (number of students in each section: 12,10).

Hadi Institution of Higher Education (Under Supervision of Applied-Scientific University):

- Precalculus: Tehran, Iran, Winter 2004, and Spring 2004 (numbers of students in two sections:50,50).

Graduate Teaching Assistant of: Calculus II: Summer 2008, Spring 2008, and Fall 2007.

Mentoring Experience

- **Math Major Mentees, (AWM) Mentor Network, March 2012 - Present.**
- **Justice C. Mullins, Mathematic Undergraduate Student (Graduated May 2017), Central State University.**
- **Rashad Oglesby, Mathematics Undergraduate Student (Graduated May 2017), Central State University.**
- **Husein Najmi, Ph.D. Student at University of North Texas, Reading Course "Mathematics for Operations Research", July 2016 - September 2016.**

Honors and Awards

- **Leader Mini-Grant, Central State University, Summer 2017.**
- **Several (NSF) Travel Grants, 2010-2013.**
- **Association for Women in Mathematics (AWM)-NSF Travel Grant to attend 2012 Joint Mathematics Meetings, Boston, 4-7 January 2012.**
- **Graduate Dean Doctoral Fellowship, Graduate Studies, UTA, 2007-2011.**
- **STEM Doctoral Fellowship, Department of Mathematics, UTA, 2007-2011.**
- **Graduate Teaching Assistant Stipends, Department of Mathematics, UTA, 2007-2011.**

Outreach Activities

- **Faculty Mentor of Mathematics & Computer Science Club (Student Organization), Department of Mathematics & Computer Science, Central State University, February 2017-Present, President: Mathematics Undergraduate Student, Douglas Richey.**
- **Member of faculty Senate committee on Academic Policy, Central State University, November 2016- Present.**
- **Volunteer Member of Association for Women in Mathematics (AWM) Mentor Network, March 2012 - Present.**
- **Judge for Undergraduate Students' Posters, ACES (Annual Celebration of Excellence by Students), UTA, 22-23 March, 2012.**
- **Judge for Undergraduate Students' Posters (in Science/Math/Engineering), LSAMP Conference, UTA, 16 Sept. 2011.**
- **Led Group Student Activities for the Math and Science Retreat for Riverside Middle School, UTA Fort Worth Center, Feb. 2010, Feb. 2009, and Feb. 2008.**
- **Volunteer for UTA Calculus Bowl, February 2009.**
- **Led Group Student Activities for the Math and Science Day for Riverside Middle School, UTA Campus, Aug. 2008.**

Invited Workshops

- **Enumerative Geometry, Mirror Symmetry, and Physics, University of Illinois at Urbana-Champaign, Champaign, 17-21 July 2017.**
- **Quantitative Reasoning Faculty Workshop on Active Learning, Columbus State Community College, Columbus, 2-3 March 2017.**
- **Spring Opportunities Workshop for Women in Mathematical Sciences, University of Tennessee, Knoxville, 9-11 April 2014.**
- **Introductory Workshop: Noncommutative Algebraic Geometry and Representation Theory, MSRI, Berkeley, 28 January - 1 February 2013.**
- **Connections for Women: Noncommutative Algebraic Geometry and Representation Theory, MSRI, Poster Title "Regular Graded Skew Clifford Algebras that are Twists of Regular Graded Clifford Algebras", Berkeley, 24-25 January 2013.**

Conference
Presentations/Seminars

- Talk Title “ (Regular) Graded Skew Clifford Algebras of Low Global Dimension”, Department of Mathematics and Statistics Colloquium, Wright State University, 31 March 2017.
- Talk Title “(Regular) Graded Skew Clifford Algebras of Low Global Dimension”, Department of Mathematics Colloquium, University of Dayton, 27 October 2016.
- Talk Title “Artin-Schelter Regular Graded Skew Clifford Algebras that are Twists of Artin-Schelter Regular Graded Clifford Algebras”, 2nd Annual Midwest Women in Mathematics Symposium, University of Notre Dame, Notre Dame, 5 April 2014.
- Talk Title “Regular Graded Skew Clifford Algebras that are Twists of Regular Graded Clifford Algebras”, Algebra Seminar, DePaul University, Chicago, 21 February 2014.
- Talk Title “Regular Graded Skew Clifford Algebras that are Twists of Regular Graded Clifford Algebras”, 2013 Southern Regional Algebra Conference, Hammond, 15-17 March 2013.
- Talk Title “Regular Graded Skew Clifford Algebras that are Twists of Regular Graded Clifford Algebras”, Joint Mathematics Meetings 2013, San Diego, 9-12 January 2013.
- Talk Title “Regular Graded Skew Clifford Algebras of Low Global Dimension”, Algebra Seminar, University of Toledo, Toledo, October - November 2012.
- Talk Title “Graded Skew Clifford Algebras that are Twists of Graded Clifford Algebras”, Texas Section of the Mathematical Association of America, El Centro College, Dallas, 12-14 April 2012.
- Talk Title “Regular Graded Skew Clifford Algebras of Low Global Dimension”, Joint Mathematics Meetings 2012, Boston, 4-7 January 2012.
- Talk Title “Graded Skew Clifford Algebras that are Twists of Graded Clifford Algebras”, Joint Mathematics Meetings 2012, Boston, 4-7 January 2012.
- Talk Title “Regular Algebras Related to Regular Graded Skew Clifford Algebras of Low Global Dimension”, AMS Special Session on Noncommutative Algebra, Wake Forest University, Winston -Salem, 24-25 September 2011.
- Talk Title “Examples of Regular Graded Skew Clifford Algebras of Global Dimension 3”, Metroplex Algebraic Geometry, Algebra and Number Theory (AGANT) Seminar, UTA, 29 April 2011.
- Talk Title “Constructing Quadratic Quantum P^2 s from Graded Skew Clifford Algebras”, Texas Section of the Mathematical Association of America, The University of Texas at Tyler, Tyler, 14-16 April 2011.
- Poster Title “Constructing Quadratic Quantum P^2 s from Graded Skew Clifford Algebras”, Southwest Local Algebra Meeting, New Mexico State University, Las Cruces, 5-6 March 2011(in absentia).
- Talk Title “Constructing Quadratic Quantum P^2 s from Graded Skew Clifford Algebras”, Joint Mathematics Meetings 2011, New Orleans, Louisiana, 6-9 January, 2011.
- Talk Title “Regular Graded Skew Clifford Algebras of Low Global Dimension”, Seminar by Students for Students, UTA, 19 November, 2010.
- Poster Titles “Examples of Graded Skew Clifford Algebras 1” and “Examples of Graded Skew Clifford Algebras 2”, New Trends in Noncommutative Algebra: A Conference in Honor of Ken Goodearl’s 65th Birthday, University of Washington, Seattle, 9-13 August, 2010.
- Poster Title “Examples of Graded Skew Clifford Algebras”, Southwest Local Algebra Meeting, UTA, Arlington, 6-7 March 2010.
- Talk Title “Pi History”, Mathematical Association of America (MAA) Celebration of Pi Day, UTA, 14 March, 2008.

- Organizer of the Workshop “Geometry Course Ware” with Y. Tabesh and V. Momtaheni, Third Annual Iranian Mathematics Education Conference, Kerman University, Kerman, Iran, 1998.

References:

- Professor Kenneth A. Brown (Research Letter)‡
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