# Ryan Kinser Mathematics

### Curriculum Vitae as of June 19, 2023

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# **EDUCATION AND PROFESSIONAL HISTORY**

## **Higher Education**

2009 PhD, Mathematics, University of Michigan
2003 BS, Mathematics, University of Kansas
Minors: Physics and Philosophy

#### **Professional and Academic Positions**

January 2023 - Chair (DEO), Department of Mathematics, The University of Iowa

present

2019 - present 2013 - 2019 2011 - 2014 Associate Professor, The University of Iowa Assistant Professor, The University of Iowa Research Instructor, Northeastern University

2009 - 2011 **Postdoctoral Fellow**, Mathematics, University of Connecticut

## **Honors and Awards**

Faculty Fellow, Learning Design Collaboratory, University of Iowa

2014, 2017 US Junior Oberwolfach Fellow, Mathematisches Forschungsinstitut Oberwolfach and

National Science Foundation

**Memberships** 

2020 - Present Society for Advancement of Chicanos/Hispanics and Native Americans in Science

2019 - Present National Association of Mathematicians (lifetime member)

Professional organization promoting excellence in the mathematical sciences, and mathematical development of all underrepresented American minorities in general and

African-Americans in particular.

## **TEACHING**

## **Courses Taught at the University of Iowa**

Term	Course#	Title	Ten-Day Enrollment	Final Enrollment
Fall 2023	MATH:5900:0001	First-Year Graduate Seminar	16 (expected)	
Spring 2023	MATH:5010:0AAA	Abstract Algebra II		1
Fall 2022	MATH:7900:0009	Practicum in College Teaching	1	1
Fall 2022	MATH:5900:0001	First-Year Graduate Seminar	20	20
Fall 2022	MATH:5000:0AAA	Abstract Algebra I		19
Spring 2022	MATH:6010:0001	Introduction to Algebra II	10	10

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Term	Course#	Title	Ten-Day Enrollment	Final Enrollment
Spring 2021	MATH:6010:0001	Introduction to Algebra II	9	8
Fall 2020	MATH:6000:0001	Introduction to Algebra I	9	10
Fall 2020	GRAD:7400:0013	Practicum in College Teaching	1	1
Fall 2020	MATH:7990:1002	Reading Research	1	1
Summer 2020	MATH:7990:9123	Reading Research	4	4
Spring 2020	MATH:7070:0001	Seminar: Algebra	1	1
Fall 2019	MATH:4020:0BBB	Basic Abstract Algebra	1	1
Fall 2019	MATH:3720:0BBB	Introduction to Abstract Algebra I	36	36
Fall 2019	MATH:7030:0001	Topics in Algebra	19	19
Summer 2019	MATH:7990:5580	Reading Research	2	2
Spring 2019	MATH:5010:0A01	Abstract Algebra II	5	5
Spring 2019	MATH:5010:0AAA	Abstract Algebra II	5	5
Spring 2019	MATH:1550:0AAA	Engineer Math I Single Variable Calculus	70	70
Spring 2019	GRAD:7400:0004	Practicum in College Teaching	1	1
Spring 2019	MATH:7070:0001	Seminar: Algebra	1	1
Fall 2018	MATH:5000:0AAA	Abstract Algebra I	10	
Fall 2018	MATH:7070:0001	Seminar: Algebra	1	
Summer 2018	MATH:7990:1380	Reading Research	2	
Spring 2018	MATH:1550:0AAA	Engineer Math I Single Variable Calculus	81	
Spring 2018	MATH:6010:0001	Introduction to Algebra II	14	
Spring 2018	MATH:7070:0001	Seminar: Algebra	2	
Spring 2018	MATH:7080:0001	Seminar: Commutative Ring Theory	2	
Fall 2017	MATH:6000:0001	Introduction to Algebra I	11	
Fall 2017	GRAD:7400:0005	Practicum in College Teaching	1	
Fall 2017	MATH:7990:7129	Reading Research	1	
Summer 2017	MATH:7990:7128	Reading Research	2	

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Term	Course#	Title	Ten-Day Enrollment	Final Enrollment
Spring 2017	MATH:7990:3937	Reading Research	2	
Spring 2017	MATH:3997:5424	Readings in Mathematics	1	
Spring 2017	MATH:7080:0001	Seminar: Commutative Ring Theory	2	
Fall 2016	MATH:4020:0BBB	Basic Abstract Algebra	2	
Fall 2016	MATH:3720:0BBB	Introduction to Abstract Algebra I	38	
Fall 2016	GRAD:7400:2	Practicum in College Teaching	1	
Fall 2016	GRAD:7400:7	Practicum in College Teaching	1	
Fall 2016	MATH:7990:1588	Reading Research	1	
Fall 2016	MATH:7070:1	Seminar: Algebra	1	
Fall 2016	MATH:7030:1	Topics in Algebra	14	
Summer 2016	MATH:7990:2573	Reading Research	1	
Spring 2016	MATH:2550:0091	Engineering Math III: Matrix Algebra	66	
Spring 2016	MATH:6010:0001	Introduction to Algebra II	11	
Spring 2016	MATH:7990:0012	Reading Research	1	
Spring 2016	MATH:7070:0001	Seminar: Algebra	1	
Fall 2015	MATH:3550:0121	Engineering Math V: Vector Calculus	33	
Fall 2015	MATH:6000:0001	Introduction to Algebra I	11	
Spring 2015	MATH:2550:0091	Engineering Math III: Matrix Algebra	80	
Spring 2015	MATH:2550:0101	Engineering Math III: Matrix Algebra	79	
Spring 2015	MATH:7070:0001	Seminar: Algebra	2	
Fall 2014	MATH:7070:0001	Seminar: Algebra	1	
Fall 2014	MATH:7030:0001	Topics in Algebra	13	

# **Innovations in Teaching** (Other Teaching Contributions)

Revisions in Existing Courses

- Summer 2021, Course redesign MATH:5900 First-year Graduate Seminar, design and implementation of course module: Individual Development Plans and Career Overviews for doctoral students in mathematical sciences
- Summer 2021, Course redesign MATH:5900 First-year Graduate Seminar, design and implementation of course module: How to Match with a Research Advisor for doctoral students in mathematical sciences
- May 2017 May 2019, Course redesign MATH:1550 Engineering Math I, Student centered course redesign in

## Workshop/Clinic

May 2017 - Aug 2017, Learning Design Collaboratory Community of Practice, Office of Teaching, Learning & Technology

# **Student Mentoring**

2022

## BS - Supervised Research and Career Mentoring

January 2021 – Spring Davis, Nyah. 2021 Goldwater Scholar, NSF-RTG Undergraduate Scholarship,

Ford Foundation Pre-doctoral Fellowship (declined), NSF Graduate Research

Fellow.

#### PhD – Research Advisor

Fall 2022 - Present Singh, Shashank

Fall 2022 - Present Del Real Ramos, Kevin Summer 2022 - Present Van Grinsven, Jacob

Fall 2021 - Present Askelsen, Elise

Fall 2021 - Present Sauder, Joseph (co-advised with Bruce Ayati)

Summer 2019 – Summer Diaz, Yariana; PhD Completed. First position: Macalester University

2023

Spring 2019 – Summer Gilbert, Cody; PhD Completed. First position: Saint Louis

2023 University

Fall 2019 – Spring 2022 Oswald, Amrei; *PhD Completed*. First position: University

of Washington

Summer 2016 - Spring Lara, Danny; *PhD Completed*. First position: Central

2019 Washington University

Fall 2015 - Summer 2018 Berrizbeitia, Ana; *PhD Completed*. First position: Colorado

Mesa University

## PhD - Comprehensive Exam, Chair

Fall 2023 Askelsen, Elise

Spring 2022 Sauder, Joseph (Co-chair)

Spring 2021 Diaz, Yariana Fall 2020 Gilbert, Cody Fall 2019 Oswald, Amrei Fall 2017 Lara, Danny

Fall 2016 Berrizbeitia, Ana

# PhD - Comprehensive Exam, Member

Spring 2023 Ariza Mejia, Juan Felipe Fall 2022 Bustos Gonzalez, Margarita

Fall 2022 Amaraweera, Niki Summer 2022 Bryhtan, Zachary Fall 2021 Sorsen, Rebecca Manuel Albrizzio Spring 2021

Fall 2020 Tang, Le

Spring 2020 Bianconi, Ryan

Spring 2019 Balz, Curtis

Spring 2019	Poudel, Anup
Fall 2018	Camacho, Nicholas
Fall 2018	Nevalainen, Shawn
Fall 2018	Wood, Adam
Spring 2018	Messmore, Mitchell
Spring 2018	Valentin De Jesus, Pedro
Fall 2017	Edison, Jeremy
Fall 2017	MacKinnon, Rebeccah
Fall 2016	Bombardier, Kevin
Fall 2016	Edmonds, Ranthony
Fall 2016	Ignacio, Paul
Fall 2015	Hasse, Erik
Fall 2015	Sistko, Alex
Fall 2014	Qin, Huan

# PhD - Dissertation Committee Member

Summer 2023	Albrizzio, Manny
Summer 2023	Nguyen, Andy
Spring 2023	Paul, Pravakar
Summer 2022	Bianconi, Ryan
Summer 2022	Poudel, Anup
Summer 2022	Tang, Le
Spring 2022	Balz, Curtis
Spring 2022	Aceves, Elaina
Spring 2022	Reynolds, Tyler
Summer 2021	Valentin de Jesus, Pedro
Summer 2021	Connolly, Nicholas
Spring 2021	Bakhira, Mohamed Imad
Spring 2021	Nevalainen, Shawn
Spring 2021	Pongtanapaisan, Puttipong
Fall 2020	Camacho, Nicholas
Summer 2020	Wood, Adam
Spring 2020	Messmore, Mitchell
Summer 2019	Ignacio, Paul
Spring 2019	Bombardier, Kevin
Spring 2019	Edison, Jeremy
Spring 2019	Sistko, Alex
Summer 2018	Edmonds, Ranthony

Summer 2018	Hasse, Erik
Spring 2016	Abdulwahid, Adnan
Spring 2016	Gerstle, Kevin
Spring 2015	Meyer, David
Spring 2015	Salazar-Torres, Dido
Spring 2015	Soto, Roberto
Spring 2015	Wackwitz, Daniel

## PhD – Fellowship Mentoring

Summer 2022	Kevin del Real Ramos, fellowship to prepare for Qualifying Exam
Fall 2021 - Present	Michele Capovilla-Searle, Lulu Merle Johnson Fellow
Fall 2021 – Present	Blend, Dylan, Lulu Merle Johnson Fellow (Physics & Astronomy)
Fall 2020 - Present	Tarrant, Kerry, Lulu Merle Johnson Fellow
Fall 2020 - Present	Bustos Gonzalez, Margarita, Lulu Merle Johnson Fellow
Fall 2020 - Present	Randall, Natalie, Lulu Merle Johnson Fellow
Fall 2019 - present	Sauder, Joseph, Graduate College Recruitment Fellowship
Fall 2018 – Spring 2023	Gilbert, Cody, Graduate College Recruitment Fellowship
Fall 2018 – Spring 2023	Diaz, Yariana, Graduate College Recruitment Fellowship
Fall 2019 – Spring 2021	Velasco, Ulyses, Lulu Merle Johnson Fellow
September 2018 - October 2018	Diaz, Yariana, Support in preparing National Science Foundation Graduate Research Fellowship research proposal

## **Professional Mentoring**

#### **Postdoctoral**

Fall 2018 - Summer 2019	Sen, Emre, Regular meetings to conduct research
Fall 2018 - Summer 2019	Zhu, Shijie, Occasional meetings for professional
	development

## **SCHOLARSHIP**

#### **Publications**

CLAS \* System \* = Senior Author, Major Contribution, \*\* = Secondary Contribution \*\*\* = Equal Contribution, \*\*\* = Minor Contribution Refereed Articles

- 1. \* Kinser, R. (2022). Total stability functions for type A quivers. *Algebras and Representation Theory*, **25**, 835–845
- 2. \*\*\* Kinser, R., Lorincz, A. (2022). Representation varieties of algebras with nodes. *Journal of the Institute of Mathematics of Jussieu*, 21(6), 2215-2245.
- 3. \*\*\* Kinser, R., Oswald, A. (2021). Hopf actions of some quantum groups on path algebras. *Journal of Algebra*, 587 (1 December 2021, 85-117)
- 4. \*\*\* Kinser, R., Rajchgot, J. (2021). Type D quiver representation varieties, double Grassmannians, and symmetric varieties. *Advances in Mathematics*, *376* (6 January 2021, 107454).
- 5. \*\*\* Etingof, P., Kinser, R., Walton, C. (2021). Tensor algebras in finite tensor categories. *International Mathematics Research Notices*, Volume 2021, Issue 24, December 2021, Pages 18529–18572
- 6. \*\*\* Carroll, A., Chindris, C., Kinser, R., Weyman, J. (2020). Moduli spaces of representations of special biserial algebras. *International Mathematics Research Notices*, 2020(2), 403-421.
- 7. \*\*\* Kinser, R., Weist, T. (2019). Tree normal forms for quiver representations. *Documenta Mathematica*, 24,

- 1245-1294.
- 8. \*\*\* Kinser, R., Knutson, A., Rajchgot, J. (2019). Three combinatorial formulas for type A quiver polynomials and K-polynomials. *Duke Mathematical Journal*, 168(4), 505-551.
- 9. \*\*\* Chindris, C., Kinser, R. (2018). Decomposing moduli of representations of finite dimensional algebras. *Mathematische Annalen*, *372*(1-2), 555-580.
- 10. \*\*\* Kinser, R., Walton, C. (2016). Actions of some pointed Hopf algebras on path algebras of quivers. *Algebra & Number Theory*, 10(1), 117-154.
- 11. \*\*\* Chindris, C., Kinser, R., Weyman, J. (2015). Module varieties and representation type of finite-dimensional algebras. *International Mathematics Research Notices*, 2015(3), 631-650.
- 12. \*\*\* Kinser, R., Rajchgot, J. (2015). Type A quiver loci and Schubert varieties. *Journal of Commutative Algebra*, 7(2), 265-301.
- 13. Kinser, R. (2013). Tree modules and counting polynomials. *Algebras and Representation Theory*, *16*(5), 1333–1347.
- 14. \*\*\* Kinser, R., Schiffler, R. (2012). Idempotents in representation rings of quivers. *Algebra & Number Theory*, 6(5), 967–994.
- 15. Kinser, R. (2011). New inequalities for subspace arrangements. *Journal of Combinatorial Theory Series A*, 118(1), 152–161.
- 16. Kinser, R. (2010). Rank functions on rooted tree quivers. Duke Mathematical Journal, 152(1), 27–92.
- 17. Kinser, R. (2008). The rank of a quiver representation. *Journal of Algebra*, 320(6), 2363–2387.

# Conference Proceeding

- 1. Kinser, R. (2018). K-polynomials of type A quiver orbit closures and lacing diagrams. *Representations of Algebras* (vol. 705, pp. 99-114). Contemporary Mathematics. Published May 2018
- 2. N.B., J.J., R.K., J.S.O. (2013). *Dilation, compression and convection in granular shear experiments* (1542nd ed., pp. 449-452). AIP Conference Proceedings. (Result of undergraduate research at University of Kansas, 2000 to 2003.)

## Research Report

- 1. Kinser, R. Tensor algebras in finite tensor categories. *Representation Theory of Quivers and Finite Dimensional Algebras* (2020). Oberwolfach Reports. Accepted/In Press 2020
- 2. Kinser, R. (2018). *Introduction to geometry of representations of algebras*. In support of a 5 hour mini-course at the CIMPA international research school "Geometric and Homological Methods in the Representation Theory of Associative Algebras and Their Applications", held in Medellín, Colombia, June 2018
- 3. Kinser, R. (2017). A decomposition theorem for moduli of representations of algebras, with application to moduli of special biserial algebras. *Representation Theory of Quivers and Finite Dimensional Algebras* (*MFO Report No. 12/2017*) (1st ed., vol. 14, pp. 622-624). Oberwolfach Reports.
- 4. Kinser, R., Weyman, J. (2014). Irreducible components of some module varieties via the Springer resolution. *Representation Theory of Quivers and Finite Dimensional Algebras (MFO Report No. 08/2014)* (1st ed., vol. 11, pp. 475-477). Oberwolfach Reports, European Mathematical Society.

## Ph.D. Thesis

1. Kinser, R. D. (2009). *Rank functors and representation rings of quivers* (pp. 131). ProQuest LLC, Ann Arbor, MI.

## **Publications In Progress**

### Journal Article

- 1. Kinser, R., Lara, D. On Algebras of Finite General Representation type. *Preprint arXiv:2204.02847, 21 pp., submitted.*
- 2. Kinser, R., Lanini, M., Rajchgot, J. Equivariant Geometry of Symmetric Quiver Orbit Closures. *Preprint available upon request, 20 pp.*
- 3. Diaz, Y., Gilbert, C., Kinser, R. Total Stability and Auslander-Reiten Sequences for Dynkin Quivers. Preprint arXiv:2208.02445, 15 pp., submitted.

## **Grants and Contracts**

### Funded

Sep 2023 – Aug 2026 Quivers in quantum symmetry: a path algebra framework for algebras in tensor

categories.

NSF DMS-2303334 (\$298	3.003). Rva	i Kinser	(PI).
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Fall 2021 – June 2024 Recruiting and Training Communication	ity College and University Students to Become	
Culturally Responsive and Proficient Mathematics Teachers in Iowa.		
NSF DUE-1852725 (\$1,233,606).	Dae Hong (PI), Patsy Steffen (Co-PI), Ryan Kinser	

(Co-PI), Julie Hartzler (Co-PI), Gregory Beaudine (Co-PI).

Sep 2019 - Aug 2024 Quiver representations across geometry and algebra: equivariant K-theory, moduli spaces, and tensor categories.

Simons Foundation Collaboration Grant (\$42,000). Ryan Kinser (PI).

Sep 2018 - Aug 2022 *Conference on Geometric Methods in Representation Theory 2018 and 2019.* NSF DMS-1839720 (\$11,836). Ryan Kinser (PI), Frauke Bleher (Co-PI).

Sep 2016 - Aug 2019 Conference on Geometric Methods in Representation Theory 2016 and 2017. NSF DMS-1644393 (\$11,285). Ryan Kinser (PI), Frauke Bleher (Co-PI).

Jan 2012 - Jan 2014 Quiver Representations: Algebra, Geometry, and Combinatorics

Geometry of Representations of Algebras

NSF DMS-1502175 (\$124,494). Ryan Kinser (PI).

NSA Young Investigator Grant H98230-12-0244 (\$39,399). Ryan Kinser (PI).

## Not Funded (with submission dates)

Oct 2020	Bridging Theory and Applications: Quiver Representations in Data Science
	Simons Foundation-Fellows in Mathematics (\$85,406). Ryan Kinser (PI).
Feb 2020	NRT: Comprehensive Training in Mathematical and Computational Neuroscience
	NSF DMS-2021860 (\$2,990,852). Maggy Tomova (PI), Zahra Aminzare (Co-PI),
	Rodica Curtu (Co-PI), Ryan Kinser (Co-PI), Colleen Mitchell (Co-PI).
Nov 2017	U.S. Participation in CIMPA Summer Research School and in the Third International
	Colloquium on Representation of Algebras and Its Applications Alexander
	Zavadskij
	NSF DMS-1810597 (\$19,406). José Vélez (PI), Ryan Kinser (Co-PI).
Oct 2017	Representations of Finite-Dimensional Algebras (a Geometric Perspective)
	NSF DMS-1801830 (\$231,733). Ryan Kinser (PI).
Jul 2017	CAREER: Representations of Finite-Dimensional Algebras (a Geometric Perspective)
	NSF DMS-1751916 (\$427,569). Ryan Kinser (PI).
Oct 2015	Geometry of Representations of Algebras
	NSF DMS-1601249 (\$129,819). Ryan Kinser (PI).

#### **Invited Lectures and Conference Presentations**

## International - Colloquium

Oct 2014

2017 Mathematics Department Colloquium, University of Saskatchewan, Saskatoon, Canada

#### International – Summer School

Geometric and Homological Methods in the Representation Theory of Associative Algebras and Their Applications, *Geometry of representations of algebras*, CIMPA (Centre International de Mathématiques Pures et Appliquées), Medellín, Colombia. 5 hour short course.

# International - Invited Lecture

2023	Joint Spectra and related Topics in Complex Dynamics and Representation Theory,
	Banff International Research Station for Mathematical Innovation and Discovery,
	Canada
2022	Noncommutative Geometry and Noncommutative Invariant Theory, Banff
	International Research Station for Mathematical Innovation and Discovery, Canada
2021	Algebra, Geometry, and Combinatorics online seminar; organized by universities
	across the USA and Canada
2020	IV Colloquium on Representations of Algebras and Its Applications; Alexander
	Zavadskij, National University of Colombia
2020	Representation Theory of Quivers and Finite Dimensional Algebras, Oberwolfach
	Mathematical Research Institute, Oberwolfach, Germany
2017	US-Mexico Conference on Representation Theory, Categorification, and

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	Noncommutative Algebra, Universidad Nacional Autónoma de México, Mexico City,
2017	Mexico
2017 2017	Algebra Extravaganza!, Temple University Maurice Auslander Distinguished Lectures and International Conference, Woods Hole,
2017	Massachusetts
2017	Representation Theory of Quivers and Finite Dimensional Algebras, Oberwolfach
2015	Mathematical Research Institute, Oberwolfach, Germany International Conference on Representation Theory and Commutative Algebra,
2015	Storrs, Connecticut Maurice Auslander Distinguished Lectures and International Conference, Woods Hole,
2014	Massachusetts Conference on cluster algebras and representation theory, Korea Institute for Advanced
2014	Study, Seoul, Korea UNAL Encuentro de Matemáticas, Universidad Nacional de Colombia, Bogotá, Colombia
2014	Representation Theory of Quivers and Finite Dimensional Algebras, Oberwolfach Mathematical Research Institute, Oberwolfach, Germany
2013	Geometric Methods in Representation Theory, University of Missouri, Columbia, Missouri, United States
2013	25th Meeting on Representation Theory of Algebras, Université de Sherbrooke, Sherbrooke, Canada
2013	17th NW German Representation Ring Workshop, Bergische Universität Wuppertal, Wuppertal, Germany
2012	Geometric Methods in Representation Theory, University of Missouri, Columbia, Missouri, United States
2012	Worldwide Center of Mathematics, Cambridge, Massachusetts
2012	International Conference on Representations of Algebras, Bielefeld University, Bielefeld, Germany
2012	Maurice Auslander Lectures and International Conference, Northeastern University, Woods Hole, Massachusetts
2011	Maurice Auslander Lectures and International Conference, Northeastern University, Woods Hole, Massachusetts
2010	Maurice Auslander Lectures and International Conference, Northeastern University, Woods Hole, Massachusetts
2009	21st Meeting on Representation Theory of Algebras, Université de Sherbrooke, Sherbrooke, Canada
2008	International Conference on Representations of Algebras XIII, Universidade de São Paulo and Instituto de Matemática e Estatística, São Paulo, Brazil
2008	Maurice Auslander Lectures and International Conference, Northeastern University, Woods Hole, Massachusetts
International - K	eynote/Plenary Address
2020	GAAG 2020 - Workshop on Geometry in Algebra and Algebra in Geometry, Universidade Federal Fluminense, Niterói, Brazil 90 minute panoramic lecture
2016	International Conference on Representations of Algebras, Syracuse University, Syracuse, New York, United States One of 12 plenary lectures selected from 150 submitted abstracts
International - P	anel
2021	Podium discussion on the future of online events and meetings in general, TRAC seminar (Théorie des Représentations et ses Applications et Connexions aux autres domaines)
International - Sc	eminar eminar
2017	University of Staskatchewan AGeNT seminar, Saskatoon, Canada
2015	Algebra and Geometry Seminar, Sapienza University of Rome, Rome, Italy
2013	Representation Theory seminar, Bielefeld University, Bielefeld, Germany
2007	Complex Geometry seminar, Pontificia Universidad Católica de Chile, Santiago, Chile

# National - Colloquium

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	2021	Mathematics Department Colloquium, Northern Illinois University
	2017	Mathematics Department Colloquium, Depaul University
	2011	Mathematics Department Colloquium, Tufts University
Nati	onal - Invited	Lecture
	2022	AMS special session "Combinatorics and Representations of Noncommutative
		Algebras", Purdue University (virtual)
	2019	AMS special session "Lie Representation Theory", University of Wisconsin-Madison
	2018	AMS special session "Commutative Algebra and Complexity", University of Michigan
	2015	Midwest Combinatorics Conference, University of Minnesota, Minneapolis,
	2015	Minnesota, United States
	2015	AMS special session "Topics in noncommutative algebra and algebraic geometry", Michigan State University
	2013	ALGECOM 9, Loyola University, Chicago, Illinois, United States
	2013	AMS special session "Noncommutative Algebra", Wake Forest University
	2011	AMS special session "Representations of Algebras", University of Iowa
	2010	AMS special session "Representations of Finite-Dimensional Algebras", Syracuse
	2010	University
	2009	AMS special session "Representations of Finite-Dimensional Algebras", U. California,
		Riverside
	2009	AMS special session "Algebra, Geometry, and Combinatorics", U. Illinois, Urbana-
		Champaign
Nati	onal - Panel	
	2018	How to prepare for your first professional position, at Math Alliance Field of Dreams
		conference
Nati	onal - Seminai	•
	2022	AGNT Seminar, Rice University, Houston, Texas (virtual)
	2016	University of Illinois Algebra-Geometry-Combinatorics Seminar, Urbana, Illinois
	2015	Cluster Algebras seminar, University of Connecticut, Storrs, Connecticut
	2014	Every Topic seminar, Brandeis University, Waltham, Massachusetts
	2012	Representation Theory seminar, City University of New York, Graduate Center, New
		York, New York
	2012	Algebra seminar, University of Missouri, Columbia, Missouri
	2012	Algebraic Geometry seminar, Princeton University, Princeton, New Jersey
	2010	Algebra seminar, Syracuse University
	2010	Representation Theory seminar, University of Massachusetts, Amherst
	2010 2010	Algebra seminar, University of Kansas
	2010	GASC seminar, Northeastern University Algebra seminar, DePaul University
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Nati	onal - Worksh	•
	2022	Supporting Minority Mentoring & Recruitment Across the Continuum. Guided
	2022	Conversation Co-Facilitator at Math Alliance Field of Dreams conference
	2022	Policies for Successful Graduate Programs - Minority Mentoring & Retention. Guided
	2010	Conversation Facilitator at Math Alliance Field of Dreams conference
	2019	Creating and supporting an inclusive mathematical community through our
		professional environment. Design and facilitation of Early Career Faculty Workshop session at the Underrepresented Students in Topology and Algebra Research
		Symposium (USTARS)

# **SERVICE**

# **Profession**

2020 - Present FD Seminar, Co-Organizer, Online research seminar, currently around 50 participants weekly

2019 - Present Math Alliance, Mentor, Mentoring students in Facilitated Graduate Admissions Process (4 completed)

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2016 - Present	American Mathematical Society Math Reviews, Reviewer (35 publications reviewed)
2023	Mathematische Zeitschrift, Reviewer (Quick opinion)
2023	Journal of the American Mathematical Society, Reviewer
2023	Notices of the American Mathematical Society, Reviewer
2023	Journal of Algebra and Applications, Reviewer (Quick opinion)
2023	Journal of Algebra, Reviewer (Quick opinion)
2023	Journal of Lie Theory, Reviewer (Quick opinion)
2023	Communications in Algebra, Reviewer (Quick opinion)
2022	Épijournal de Géométrie Algébrique, Reviewer (Quick opinion)
2022	Bulletin of the London Mathematical Society, Reviewer
2022	Banff International Research Station, Workshop proposal reviewer
2022	Forum of Mathematics Sigma, Reviewer (Quick opinion)
2022	Science China Mathematics, Reviewer (Quick opinion)
2022	Mathematische Zeitschrift, Reviewer (Quick opinion)
2022	Israel Journal of Mathematics, Reviewer (Quick Opinion)
2022	Journal of the American Mathematical Society, Reviewer
2022	Advances in Mathematics, Reviewer (Quick Opinion)
2022	Bulletin of the London Mathematical Society, Reviewer
2022 2021	Journal of Algebra and Applications, Reviewer FONDECYT (National Fund for Scientific and Technological Devleopment) Chile, Grant reviewer
2021	Algebras and Representation Theory, Reviewer
2021	Journal of the London Mathematical Society, Reviewer
2021	AMS, Special Session: Quiver Representations: Bridging Theory and Application, Organizer
2020	Mathematische Zeitschrift, Reviewer (Quick opinion)
2020	Journal of the London Mathematical Society, Reviewer (Quick opinion)
2020	Mathematische Zeitschrift, Reviewer (Quick opinion)
2020	Notices of the AMS, Reviewer
2020	Proceedings of the AMS, Reviewer
2020	Sao Paulo Journal of Mathematical Sciences, Reviewer
2020	Universidad Nacional de Colombia, Member, Doctoral thesis jury, Robinson Julián Serna Vanegas
2020	Universidad Nacional de Colombia, Doctoral thesis jury, Gabriel Bravo Rios, Member,
2019	Doctoral thesis jury, Gabriel Bravo Rios Geometric Methods in Representation Theory Conference, Co-Organizer (at University of Missouri)
2019	Homological Methods and Tilting Theory of Finite Dimensional Algebras, Organizing Committee
2019	Nagoya Mathematical Journal, Reviewer
2019 2018	Proceedings of the AMS, Reviewer Geometric Methods in Representation Theory Conference, Chair
2018	Documenta Mathematica, Reviewer

	2018	Proceedings of the AMS, Reviewer, 2 articles
	2018	International Mathematics Research Notices, Reviewer
	2018	Journal of Commutative Algebra, Reviewer
	2017	Geometric Methods in Representation Theory Conference, Chair
	2017	International Mathematics Research Notices, Reviewer
	2017	Journal of Commutative Algebra, Reviewer
	2009 - 2017 2016	Zentralblatt, Reviewer, Publications, Reviewed 16 articles Geometric Methods in Representation Theory Conference, Co-Organizer (at University of Missouri)
	2016	Algebras and Representation Theory, Reviewer
	2016	Representation Theory, Reviewer
	2016	Special Session: Noncommutative Algebras and their Representations, Organizer
	2015	IEEE Transactions on Information Theory, Reviewer
	2015	Journal of Algebra, Reviewer
	2013	Advances in Mathematics, Reviewer
	2013	Contemporary Mathematics, Reviewer
	2013	Special Session: Geometric Complexity Theory, Organizer, In conjunction with an AMS Mathematics Research Community
	2011	Communications in Algebra, Reviewer
	2010	Journal of Pure and Applied algebra, Reviewer
Depa	artment	
_	Jan 2023 - present	Department of Mathematics Chair (DEO)
	Jan 2023 - present 2018 - 2023	
	present 2018 - 2023	Director of Diversity, Equity, and Inclusion in Mathematics
	present 2018 - 2023 2014 - Present	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer
	present 2018 - 2023 2014 - Present Fall 2022	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member
	present 2018 - 2023 2014 - Present Fall 2022 2022	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference
	present 2018 - 2023 2014 - Present Fall 2022 2022 2021	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference Ph.D. student recruitment at Field of Dreams conference (virtual)
	present 2018 - 2023 2014 - Present Fall 2022 2022	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference
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	present 2018 - 2023 2014 - Present Fall 2022 2022 2021 2021 2021 2021 2021	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference Ph.D. student recruitment at Field of Dreams conference (virtual) Wrote majority of Learning Outcomes and Assessment report for Graduate College Coordinated extension of mentoring system to all incoming Math PhD students in conjunction with AAU PhD Education Initiative (beginning Summer 2021) Enrollment Committee Third Year Review for Zahra Aminzare, Member
	present 2018 - 2023 2014 - Present Fall 2022 2022 2021 2021 2021 2021 2021 2021	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference Ph.D. student recruitment at Field of Dreams conference (virtual) Wrote majority of Learning Outcomes and Assessment report for Graduate College Coordinated extension of mentoring system to all incoming Math PhD students in conjunction with AAU PhD Education Initiative (beginning Summer 2021) Enrollment Committee Third Year Review for Zahra Aminzare, Member Faculty Committee (2020 Strategic Plan), Member
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	present 2018 - 2023 2014 - Present Fall 2022 2022 2021 2021 2021 2021 2021 2019 - 2020 2017 - 2020 2020 2020	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference Ph.D. student recruitment at Field of Dreams conference (virtual) Wrote majority of Learning Outcomes and Assessment report for Graduate College Coordinated extension of mentoring system to all incoming Math PhD students in conjunction with AAU PhD Education Initiative (beginning Summer 2021) Enrollment Committee Third Year Review for Zahra Aminzare, Member Faculty Committee (2020 Strategic Plan), Member Graduate Committee Ph.D. student recruitment at Field of Dreams conference (virtual) Ph.D. student recruitment trip to Puerto Rico
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	present 2018 - 2023 2014 - Present Fall 2022 2022 2021 2021 2021 2021 2021 2019 - 2020 2017 - 2020 2020 2019 2016 - 2019 2015 - 2018 2017 2017 2017 2015 - 2017	Director of Diversity, Equity, and Inclusion in Mathematics Algebra seminar, Co-Organizer Graduate Committee, Member Ph.D. student recruitment at Field of Dreams conference Ph.D. student recruitment at Field of Dreams conference (virtual) Wrote majority of Learning Outcomes and Assessment report for Graduate College Coordinated extension of mentoring system to all incoming Math PhD students in conjunction with AAU PhD Education Initiative (beginning Summer 2021) Enrollment Committee Third Year Review for Zahra Aminzare, Member Faculty Committee (2020 Strategic Plan), Member Graduate Committee Ph.D. student recruitment at Field of Dreams conference (virtual) Ph.D. student recruitment at Field of Dreams conference Executive Committee Committee for Diversity and Inclusion, Member Ph.D. student recruitment at Field of Dreams conference

2010	and local graduate students give weekly talks Reading Seminar: Monoidal Categorification, Organizer, (University of Connecticut), Combining faculty expertise to understand a recent breakthrough in cluster algebras		
College			
2023	Presentation at February CLAS DGS meeting on Inclusive Recruitment and Holistic Admission in graduate programs		
2021	Co-organizer of "Can We Talk?" film screening and panel discussions, as part of CLAS Theme Year "Pursuing Racial Justice at Iowa"		
2020 - 2023	CLAS - Diversity, Equity, and Inclusion Committee, Member		
University	University		
2023-present	Native American Council, Member		
2021-present	Diversity, Equity, and Inclusion Success Collaborative (DEISC), Member		
202	Co-organizer of STEM Celebration of MLK "Social responsibility in STEM" discussion panel feature panelists from across U. Iowa		
2022	Lead organizer of STEM Celebration of MLK lecture by Tracy Jon Sargent, Executive Director of Multicultural Development Center of Iowa (joint with College of Engineering Council for DEI members)		
2021	Lead organizer of STEM Celebration of MLK "Service through STEM" discussion panel feature panelists from CLAS, Engineering, and U. Iowa Division of DEI (joint with College of Engineering Council for DEI members)		
2020	Lead organizer of STEM Celebration of MLK lecture by UI Provost Montse Fuentes		
2019	Lead organizer of STEM Celebration of MLK lecture by entrepreneur and Iowa PhD graduate Paulette Willis		

# **Professional Development Activities**

2019 - Present	BUILD certificate, University of Iowa, Certificate completed Fall 2019 (6 courses), with 11 total training courses completed
2017 - Present	Conference Participant, annual Field of Dreams conference, National Alliance for Doctoral Studies in the Mathematical Sciences
2023	Invited Workshop Participant, Joint Spectra and related Topics in Complex Dynamics and Representation Theory, Banff International Research Station for Mathematical Innovation and
2022	Discovery Invited Workshop Participant, Noncommutative Geometry and Noncommutative Invariant Theory, Banff International Research Station for Mathematical Innovation and Discovery
2020	Invited Workshop Participant, Representation Theory of Quivers and Dimensional Algebras, Oberwolfach Mathematics Research Institute
2020	Training/Development Program, UI LEAD (Leadership Education, Assessment, and Development), University of Iowa Human Resources
2019	Workshop Participant, Write Winning Grant Proposals
2019	Invited Workshop Participant, Multivariable Spectral Theory and Representation Theory, Banff International Research Station for Mathematical Innovation and Discovery
2017	Invited Workshop Participant, Representation Theory of Quivers and Dimensional Algebras, Oberwolfach Mathematics Research Institute
2014	Invited Workshop Participant, Representation Theory of Quivers and Dimensional Algebras, Oberwolfach Mathematics Research Institute
2013	Invited Research Visit (2 months), Bielefeld University
2010	Invited Research Visit (2 weeks), Syracuse University