

### CONTACT INFORMATION

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web: [hoalg.net/chrisrogers](http://hoalg.net/chrisrogers)

### RESEARCH AREAS

Homological algebra, homotopy theory; applications of these to deformation theory, algebraic geometry, mathematical physics

### CURRENT ACADEMIC APPOINTMENT

2021– Associate Professor of Mathematics (with tenure)  
Department of Mathematics & Statistics, University of Nevada, Reno.

### PRIOR APPOINTMENTS

2016–2020 Assistant Professor (tenure-track)  
Department of Mathematics & Statistics, University of Nevada, Reno.  
2015–2016 Assistant Professor (tenure-track)  
Department of Mathematics, University of Louisiana at Lafayette.  
2014–2015 Postdoctoral Research Associate, Institute for Mathematics and Computer Science,  
University of Greifswald, Germany.  
2011–2014 Postdoctoral Research Associate, Mathematics Institute  
University of Göttingen, Germany.

### VISITING POSITIONS

October 2023 Visiting Scholar  
School of Mathematics and Statistics, University of Melbourne  
Melbourne, Australia.  
Spring 2020 Research member, “Higher Categories and Categorification” Program  
Mathematical Sciences Research Institute (MSRI)  
Berkeley, California, USA  
July 2019 Research visitor  
Max Planck Institute for Mathematics  
Bonn, Germany  
Fall 2010 Junior Research Fellow, “Higher Structures in Mathematics and Physics” Program  
Erwin Schrödinger Institute (ESI) for Mathematical Physics  
Vienna, Austria

## EDUCATION

- 2007–2011 Ph.D. in Mathematics, University of California, Riverside.  
- Thesis: *Higher Symplectic Geometry*  
- Advisor: John C. Baez
- 1998–2002 Graduate studies in Theoretical Physical Chemistry, University of Pennsylvania.  
- Research in applications of differential geometry to condensed matter theory.  
- Completed all requirements except submission of Ph.D. dissertation
- 1994–1998 B.S. in Chemistry with honors (minor in Mathematics), University of Scranton.

## GRANTS

- 2023-2026 NSF Division of Mathematical Sciences (Topology Division) DMS-2305407  
*Derived Symmetries and the Alekseev-Torossian Conjecture: From Algebraic Geometry to Knotted Objects in Dimension 4*  
Principal Investigator: CLR
- 2018-2023 Simons Foundation Collaboration Grant for Mathematicians, Award #585631  
*Applications of Homotopical Algebra in Deformation Theory and Geometry.*  
Principal Investigator: CLR
- 2016 Louisiana Board of Regents Support Fund, 3 Yr Research Competitiveness Grant #098A-16  
*Cohomological and Homotopy-Theoretic Investigations Arising from Classical and Quantum Field Theory.*  
Principal Investigator: CLR (Returned due to relocation to UNR.)
- 2015 German National Research Foundation (DFG) 3 Year Research Grant, Project ZH 274/1-1:  
*Homotopy Lie theory: Lie's 2nd Theorem for Lie  $n$ -groupoids.*  
Principal Investigators: CLR, Chenchang Zhu (University of Göttingen).  
(CLR's support returned due to relocation to US.).
- 2015 American Mathematical Society/Simons Foundation Travel Grant.  
Principal Investigator: CLR

## AWARDS

- 2020 Westfall Scholar Faculty Mentor Award. College of Science, UNR
- 2020 Finalist, NSHE Board of Regents' Rising Researcher Award
- 2019 Finalist, NSHE Board of Regents' Rising Researcher Award
- 2019 Finalist, LeMay Award for Excellence in Teaching in the College of Science, UNR  
(declined further consideration)
- 2019 Nomination, UNR Alan Bible Teaching Excellence Award
- 2010 Oberwolfach Leibniz Graduate Student
- 2010 Dissertation Year Fellowship, University of California, Riverside.
- 2009 Department Qualifying Exam Award, University of California, Riverside.
- 2007 Chancellor's Distinguished Fellow, University of California, Riverside.

## REFEREED PUBLICATIONS

1. *On the Goldman-Millson theorem for  $A_\infty$ -algebras in arbitrary characteristic*  
(Coauthored with A. Milham)  
**Journal of Algebra**  
vol. 632 (2023) 384–425  
[arXiv link](#) 42 pages
2. *Complete filtered  $L_\infty$ -algebras and their homotopy theory*  
**Journal of Pure and Applied Algebra**  
vol. 227 (2023) 107403  
[arXiv link](#) 47 pages
3. *Which homotopy algebras come from transfer?*  
(Coauthored with M. Markl)  
**Proceedings of the American Mathematical Society**  
vol. 150 (2022) 975–990  
[arXiv link](#) 15 pages
4. *An explicit model for the homotopy theory for finite type Lie  $n$ -algebras*  
**Algebraic and Geometric Topology**  
vol. 20 (2020) 1371–1429  
[arXiv link](#) 59 pages
5. *On the homotopy theory for Lie  $\infty$ -groupoids, with an application to integrating  $L_\infty$ -algebras*  
Coauthored with C. Zhu  
**Algebraic and Geometric Topology**  
vol. 20 (2020) 1127–1219  
[arXiv link](#) 93 pages
6. *The cohomology of the full directed graph complex*  
Coauthored with V. Dolgushev  
**Algebras and Representation Theory**  
vol. 23 (2020) 917–961  
[arXiv link](#) 45 pages
7. *Homotopical properties of the simplicial Maurer–Cartan functor*  
In MATRIX Annals, **MATRIX Book Series 1**  
D. Wood, J. de Gier, C. Praeger, T. Tao (Eds.)  
Springer Berlin, 2018  
[arXiv link](#) 12 pages
8. *On an enhancement of the category of shifted  $L_\infty$ -algebras*  
Coauthored with V. Dolgushev  
**Applied Categorical Structures**  
vol. 25 (2017) 489–503  
[arXiv link](#) 15 pages

9. *Homotopy moment maps*  
 Coauthored with M. Callies, Y. Frégier and M. Zambon  
**Advances in Mathematics**  
 vol. 303 (2016) 954–1043  
[arXiv link](#) 90 pages
10. *Higher  $U(1)$ -gerbe connections in geometric prequantization*  
 Coauthored with D. Fiorenza, and U. Schreiber  
**Reviews in Mathematical Physics**  
 vol. 28 (2016) 1650012-1–1650012-72  
[arXiv link](#) 73 pages
11. *Kontsevich’s graph complex, GRT, and the deformation complex of the sheaf of polyvector fields*  
 Coauthored with V. Dolgushev and T. Willwacher  
**Annals of Mathematics**  
 vol. 182 (2015) 855–943  
[arXiv link](#) 89 pages
12. *What do homotopy algebras form?*  
 Coauthored with V. Dolgushev and A. Hoffnung  
**Advances in Mathematics**  
 vol. 274 (2015) 562–605  
[arXiv link](#) 44 pages
13. *A version of the Goldman-Millson Theorem for filtered  $L_\infty$ -algebras*  
 Coauthored with V. Dolgushev  
**Journal of Algebra**  
 vol. 430 (2015) 260–302  
[arXiv link](#) 43 pages
14.  *$L_\infty$ -algebras of local observables from higher prequantum bundles*  
 Coauthored with D. Fiorenza and U. Schreiber  
**Homology, Homotopy and Applications**  
 vol. 16 (2014) 107–142  
[arXiv link](#) 36 pages
15. *2-plectic geometry, Courant algebroids, and categorified prequantization*  
**Journal of Symplectic Geometry**  
 vol. 11 (2013) 53–91  
[arXiv link](#) 39 pages
16. *A higher Chern-Weil derivation of AKSZ sigma-models*  
 Coauthored with D. Fiorenza and U. Schreiber  
**International Journal of Geometric Methods in Modern Physics**  
 vol. 10 (2013) 1250078-1–1250078-36  
[arXiv link](#) 37 pages
17. *Notes on algebraic operads, graph complexes, and Willwacher’s construction*  
 Coauthored with V. Dolgushev  
**Contemporary Mathematics**  
 vol. 583 (2012) 25–146  
[arXiv link](#) 122 pages

18. *L<sub>∞</sub>-algebras from multisymplectic geometry*  
**Letters in Mathematical Physics**  
 vol. 100 (2012) 29–50  
[arXiv link](#) 22 pages
19. *Categorified symplectic geometry and the string Lie 2-algebra*  
 Coauthored with J. Baez  
**Homology, Homotopy and Applications**  
 vol. 12 (2010) 221–236  
[arXiv link](#) 16 pages
20. *Categorified symplectic geometry and the classical string*  
 Coauthored with J. Baez and A. Hoffnung  
**Communications in Mathematical Physics**  
 vol. 293 (2010) 701–725  
[arXiv link](#) 25 pages
21. *A geometric formulation of quantum stress fields*  
 Coauthored with A. Rappe  
**Physical Review B**  
 vol. 65 (2002) 224117-1–224117-8
22. *Unique quantum stress fields*  
 Coauthored with A. Rappe  
**AIP Conference Proceedings**  
 vol. 582(1) (2001) 91–96
23. *Geometric theory of stress fields for quantum systems at finite temperature*  
 Coauthored with A. Rappe  
 In Computer Simulation Studies in Condensed-Matter Physics XIV  
**Springer Proceedings in Phys., 89**, D.P. Landau *et al* (Eds.)  
 Springer-Verlag New York, 2001

## INVITED CONFERENCE, COLLOQUIUM, AND SEMINAR TALKS

1. “Formal deformation problems and the unicity of homotopy transfer”  
 Melbourne Topology Seminar  
 University of Melbourne, Melbourne, Australia  
**October 2023**
2. “Toward a  $KRV_2$  action in the derived category”  
 Workshop on Algebra, Topology, and the Grothendieck-Teichmüller Group  
 SwissMAP Research Station in Les Diablerets, Switzerland  
**August 2022**
3. “Abstract homotopical methods for concrete geometric models in Lie theory”  
 Workshop on Poisson Geometry, Lie Groupoids and Differentiable Stacks  
 Banff International Research Station for Mathematical Discovery, Canada  
**June 2022**

4. "Parenthesized chord diagrams, graph complexes, and Chern characters"  
 Cascade Topology Conference  
 Boise State University  
**November 2021**
5. "Homotopy theory for Kan simplicial manifolds"  
 Peripatetic Seminar  
 Department of Mathematics, University of Calgary  
**April 2021**
6. "Which homotopy algebras come from transfer?"  
 3rd International Conference on Operad Theory and Related Topics  
 Jilin University, China  
**September 2020**
7. "From graph complexes to Chern classes"  
 ESI Program on Higher Structures and Field Theory  
 Erwin Schrödinger Institute, University of Vienna, Austria  
**August 2020** (rescheduled due to COVID-19 pandemic)
8. "Lie's 3rd Theorem for  $L_\infty$ -algebras"  
 Deformation Theory Seminar  
 Department of Mathematics, University of Pennsylvania  
**April 2020** (postponed due to COVID-19 pandemic)
9. "Explicit models of homotopy theories for  $L_\infty$ -algebras and applications"  
 Algebraic Topology Seminar  
 Institute of Mathematics Czech Academy of Sciences, Czech Republic  
**July 2019**
10. "Homotopy theory for Kan simplicial manifolds"  
 Geometry and Topology Seminar  
 Department of Mathematics, University of California, Irvine  
**April 2019**
11. "Homotopical applications of convolution"  
 International Conference on Operad Theory and Related Topics  
 Anhui University, Hefei, China  
**November 2018**
12. "Homotopy transfer as a deformation problem"  
 Department Colloquium  
 Department of Mathematical Sciences, Montana State University  
**March 2018**
13. "Formal deformation problems and the unicity of homotopy transfer"  
 Recent Developments in Noncommutative Algebra and Related Areas  
 University of Washington, Seattle, WA  
**March 2018**

14. "The unicity of homotopy transfer: A deformation theoretic proof"  
 Special Session on Cohomology, Deformations, and Quantum Groups  
 AMS Fall Eastern Sectional Meeting, SUNY Buffalo  
**September 2017**
15. "A homotopy theory for Lie  $n$ -groupoids with applications to integration and differentiation"  
 Conference on Poisson Geometry and Stacks  
 Fields Institute, Toronto, Canada  
**August 2017**
16. "Towards an adjunction between the homotopy theories of dg manifolds and Lie  $\infty$ -groupoids"  
 BIRS-CMO Workshop: Field Theories and Higher Structures in Mathematics and Physics  
 Casa Matemática Oaxaca, Mexico  
**June 2017**
17. "Homotopical properties of the simplicial Maurer–Cartan functor"  
 Deformation Theory Seminar  
 Department of Mathematics, University of Pennsylvania  
**March 2017**
18. "From Hamiltonian mechanics to homotopical Lie theory"  
 Department Seminar  
 Department of Mathematics, University of California, Riverside  
**December 2016**
19. "Integrating quasi-isomorphisms between  $L_\infty$ -algebras"  
 Special Session on Topology and Physics  
 AMS 2016 Fall Central Sectional Meeting, Minneapolis, MN  
**October 2016**
20. "What do homotopy algebras form?"  
 Program on Higher Structures in Geometry and Physics  
 MATRIX Research Institute, University of Melbourne, Australia  
**June 2016**
21. "From Hamiltonian mechanics to homotopical Lie theory"  
 Department Colloquium  
 Department of Mathematics & Statistics, University of Nevada, Reno  
**April 2016**
22. "Equivariant cohomology and homotopy moment maps"  
 ESI Program on Higher Structures in String Theory and Quantum Field Theory  
 Erwin Schrödinger Institute, University of Vienna, Austria  
**December 2015**
23. "What do homotopy algebras form?"  
 Special Session on Cohomology of Algebras and Deformation Theory  
 AMS 2015 Fall Central Sectional Meeting, Chicago, IL  
**October 2015**

24. "Equivariant cohomology, homotopy moment maps, and gauged sigma models"  
 Lie Group and Moduli Space Seminar  
 University of Geneva, Switzerland  
**April 2015**
25. "From Hamiltonian mechanics to homotopical Lie theory"  
 Department Colloquium  
 Department of Mathematics, University of Louisiana at Lafayette  
**March 2015**
26. "From Hamiltonian mechanics to homotopical Lie theory"  
 Symposium on Mathematical Physics  
 University of Zürich, Switzerland  
**November 2014**
27. "What do homotopy algebras form?"  
 Workshop on String Geometry and Loop Spaces  
 University of Greifswald, Germany  
**July 2014**
28. "Symmetries of closed differential forms and Lie algebras up to homotopy"  
 Special Session on Symplectic and Contact Structures on Manifolds with Special Holonomy  
 Joint Mathematics Meetings, Baltimore, MD  
**January 2014**
29. "What do homotopy algebras form?"  
 Conference on Higher Lie Theory  
 University of Luxembourg, Luxembourg  
**December 2013**
30. "Geometric prequantization and homotopy Lie theory"  
 Special Session on Higher Structures in Algebra, Geometry and Physics  
 AMS 2013 Fall Eastern Sectional Meeting, Philadelphia, PA  
**October 2013**
31. " $L_\infty$ -algebras and geometric prequantization"  
 Algebraic Analysis and Geometry Workshop  
 University of Padua, Italy  
**September 2013**
32. "Lie algebras up to homotopy and the geometry of closed differential forms"  
 Department Colloquium  
 Department of Mathematics & Statistics, University of Nevada, Reno  
**August 2013**
33. "Geometric prequantization and homotopy Lie theory"  
 Special Session on Mathematical Physics, Operad Theory, Algebraic Topology and Higher Categories  
 Mathematical Congress of the Americas, Guanajuato, Mexico  
**August 2013**



34. "Higher symplectic geometry"  
XXI International Fall Workshop on Geometry and Physics  
Universidad de Burgos, Spain  
**August 2012**
35. "Towards higher geometric quantization"  
Higher Structures in China III  
Jilin University, China  
**August 2012**
36. "Towards higher geometric quantization"  
Higher Differential Geometry Seminar  
Max Planck Institute for Mathematics, Bonn, Germany  
**May 2012**
37. "Towards higher geometric quantization"  
Mathematical Physics Seminar  
Department of Mathematics, University of Hamburg, Germany  
**March 2012**
38. "Lie algebras up to homotopy and generalized geometry"  
Algebra and Geometry Seminar  
Department of Mathematics, Sapienza Università di Roma, Italy  
**February 2012**
39. "Higher geometric quantization"  
Higher Structures in Mathematics and Physics 2011  
University of Göttingen, Germany  
**November 2011**
40. "Higher symplectic geometry and geometric quantization"  
Quarterly Seminar on Topology and Geometry  
Utrecht University, Netherlands  
**October 2011**
41. " $L_\infty$ -algebras from higher symplectic geometry"  
Special Session on Physically Inspired Higher Homotopy Algebra  
AMS 2011 Spring Eastern Sectional Meeting, Worcester, MA  
**April 2011**
42. " $L_\infty$ -algebras from higher symplectic geometry"  
Deformation Theory Seminar  
Department of Mathematics, University of Pennsylvania  
**November 2010**
43. "Mini-course on categorified symplectic geometry"  
ESI Program on Higher Structures in Mathematics and Physics  
Erwin Schrödinger Institute, University of Vienna, Austria  
**October 2010**

44. " $L_\infty$ -algebras from multisymplectic geometry"  
 Differential Geometry Seminar  
 Department of Mathematics, University of California, Riverside  
**May 2010**
45. "An invitation to higher symplectic geometry"  
 Seminaire Mathématique  
 Unité de Recherche en Mathématiques, University of Luxembourg, Luxembourg  
**January 2010**
46. "Lie 2-algebras, 2-plectic geometry, and strings"  
 String Theory Seminar  
 Department of Mathematics, University of California, Davis  
**May 2009**
47. "Lie 2-algebras from 2-plectic geometry"  
 Courant Institute Workshop: Higher Structures in Topology and Geometry II  
 University of Göttingen, Germany  
**February 2009**

#### MEETINGS (INVITATION ONLY)

- 2023 Homotopical Algebra and Higher Structures Mathematical Research Institute of Oberwolfach  
 (Oberwolfach, Germany)  
**August 2024**
- 2022 Higher Categories and Categorification, Part Two  
 Universidad Nacional Autónoma de México (Cuernavaca, Mexico)  
**June 2022**
- 2022 Differentiable Stacks, Poisson Geometry and Related Geometric Structures  
 SwissMAP Research Station (Les Diablerets, Switzerland)  
**February 2022**
- 2021 Homotopical Algebra and Higher Structures  
 Mathematical Research Institute of Oberwolfach (Oberwolfach, Germany)  
**September 2021**
- 2010 Deformation Methods in Mathematics and Physics  
 Mathematical Research Institute of Oberwolfach (Oberwolfach, Germany)  
**October 2010**

## RESEARCH ADVISING AND THESES DIRECTED

### Postdoctoral Researchers

2016–2019 Dr. He Wang, University of Nevada, Reno  
Current position: Assistant Professor of Practice  
Department of Mathematics  
Northeastern University

### Ph.D. Students

2022 – Sonja Farr, University of Nevada, Reno  
Thesis topic: Grothendieck-Teichmüller group in derived algebraic geometry

2019 – 2023 Dr. Alex Milham, University of Nevada, Reno  
Thesis title: “On the Goldman-Millson theorem for  $A_\infty$ -algebras in arbitrary characteristic”  
Current position: Instructor  
Department of Mathematics  
Truckee Meadows Community College

2017 – 2019 Richard Foote, University of Nevada, Reno  
Current position: pursuing career in data science

### Masters Students

2019 – 2021 Jenna Moore, University of Nevada, Reno  
Thesis title: “Galois descent, cohomology, and conjugacy”  
Current position: Ph.D. student  
Department of Mathematics  
University of Utah

2018 – 2019 Aydin Ozbek, University of Nevada, Reno  
Thesis title: “The homotopy theory of commutative dg algebras  
and representability theorems for Lie algebra cohomology”  
Current position: Ph.D. student  
Department of Mathematics  
University of Oregon

### Undergraduate Honors Students

2019 – 2020 Daniel Mallory, University of Nevada, Reno  
Thesis title: “Grothendieck’s *dessins d’enfants* and Belyi’s classification  
of algebraic curves over  $\overline{\mathbb{Q}}$ ”  
Current position: Ph.D. student  
Department of Mathematics  
Northwestern University

2019 – 2020 Eliza Grifall, University of Nevada, Reno  
Thesis title: “Frobenius algebras and  $2D$  topological quantum field theories”

**TEACHING** (at University of Nevada, Reno)

- Spring 2023 Math 440/640: Topology
- Spring 2023 Math 742: Algebraic Topology II
  - Fall 2022 Math 733: Commutative Algebra
  - Fall 2022 Math 793: Graduate Independent Study (Model Categories)
  - Fall 2022 Math 773: Topics in Algebra (Operads)
  - Fall 2022 Math 441/641: Introduction to Algebraic Topology
- Spring 2022 Math 182: Calculus II
  - Fall 2021 Math 780: Lie Algebras and Representation Theory
  - Fall 2021 Math 331: Groups, Rings, and Fields
- Spring 2021 Math 780: Homotopy Theory
- Spring 2021 Math 440/640: Topology
  - Fall 2020 Math 780: Algebraic Geometry
  - Fall 2020 Math 441/641: Introduction to Algebraic Topology
  - Fall 2019 Math 331: Groups, Rings and Fields
  - Fall 2019 Math 330: Linear Algebra (2 sections)
  - Fall 2019 Math 793: Graduate Independent Study (Deformation Theory)
- Summer 2019 Math 499: Undergraduate Independent Study (Topological Quantum Field Theory)
- Spring 2019 Math 499: Undergraduate Independent Study (Frobenius Algebras)
- Spring 2019 Math 793: Graduate Independent Study (Lie Groups and Van Est's Theorem)
  - Fall 2018 Math 780: Topics in Galois Theory
  - Fall 2018 Math 499: Undergraduate Independent Study (Field and Galois Theory)
  - Fall 2018 Math 182: Calculus II
- Spring 2018 Math 732: Graduate Abstract Algebra II
- Spring 2018 Math 793: Graduate Independent Study (Abstract Homotopy Theory)
- Spring 2018 Math 499: Undergraduate Independent Study (Module Theory)
  - Fall 2017 Math 731: Graduate Abstract Algebra I
  - Fall 2017 Math 331: Groups, Rings and Fields
- Spring 2017 Math 301: Introduction to Proofs
- Spring 2017 Math 499: Undergraduate Independent Study (Advanced Linear Algebra)
  - Fall 2016 Math 330: Linear Algebra

## PROFESSIONAL SERVICE

### Grant proposal review

202X National Science Foundation, Division of Mathematical Sciences

### Referee (peer review) for the following research journals

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|---|--|
| <i>Annales de l'Institut Fourier</i>          | <i>Advances in Mathematics</i>                     |
| <i>Compositio Mathematica</i>                 | <i>Differential Geometry and its Applications</i>  |
| <i>Higher Structures</i>                      | <i>Journal of Algebra</i>                          |
| <i>Journal of Differential Geometry</i>       | <i>Journal of Geometry</i>                         |
| <i>Journal of Mathematical Physics</i>        | <i>Journal of Noncommutative Geometry</i>          |
| <i>Journal of Pure and Applied Algebra</i>    | <i>Journal of Symplectic Geometry</i>              |
| <i>Letters in Mathematical Physics</i>        | <i>Mathematical Physics, Analysis and Geometry</i> |
| <i>Quarterly Journal of Mathematics</i>       | <i>Theory and Applications of Categories</i>       |
| <i>Applied Categorical Structures</i>         | <i>Mathematische Annalen</i>                       |
| <i>Algebraic and Geometric Topology</i>       | <i>International Mathematics Research Notices</i>  |
| <i>Annali di Matematica Pura ed Applicata</i> | <i>Bulletin of the London Mathematical Society</i> |
| <i>Geometry and Topology</i>                  |  |

### Conference organization

- 2021 Co-organizer "Special Session on Connections between Homotopical Algebra and Geometry", AMS 2021 Spring Western Sectional meeting. 1–2 May, 2021
- 2014 Co-organizer "Higher Structures in Philadelphia", Temple University, 11–13 August 2014
- 2012 Co-organizer "Higher Structures in Topology and Geometry VI", University of Göttingen, 9–11 July 2012

### Miscellaneous

2011 – 2019 Thirty-six reviews written for *Mathematical Reviews* (MathSciNet ID: 888087)

## UNIVERSITY SERVICE (selected; while at University of Nevada, Reno)

- 2022 – 2023 Department Annual Evaluation and Merit Committee
- 2022 – Department research mentor for junior tenure-track faculty
- 2019 – Algebraic and Geometric Topology Seminar organizer
- 2017 – Department Colloquium Committee Chair
- 2019 – 2020 Mathematics TT Search Committee Member
- 2018 – 2021 Mathematics Graduate Program Committee
- 2016 – 2017 Graduate Student Recruiting Committee Member
- 2016 – 2017 External Department Chair Search Committee Member