

CONTACT INFORMATION

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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.
June 2022 Research Member, “Higher Categories and Categorification, Part Two”
Mathematical Sciences Research Institute/Universidad Nacional Autónoma de México
Cuernavaca, Mexico
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 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

MathSciNet ID: 888087

Authors' names in mathematics publications are ordered alphabetically, not by degree of contribution.

1. *On the Goldman-Millson theorem for A_∞ -algebras in arbitrary characteristic*
(Coauthored with A. Milham)
Journal of Algebra
vol. 632 (2023) 384–425
[arXiv link](#) 42 pages
2. *Complete filtered L_∞ -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 ∞ -groupoids, with an application to integrating L_∞ -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_∞ -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_∞ -algebras*
Coauthored with V. Dolgushev
Journal of Algebra
vol. 430 (2015) 260–302
[arXiv link](#) 43 pages
14. *L_∞ -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_∞ -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

SUBMITTED FOR PUBLICATION

1. *Lie's third theorem for Lie ∞ -algebras*
 Coauthored with J. Wolfson
[arXiv link](#) 88 pages

INVITED CONFERENCE, COLLOQUIUM, AND SEMINAR TALKS

1. “Homotopical models for L_∞ -algebras and higher Lie theory”
 Homotopical algebra in geometry, topology, and physics
 Northwestern University
June 2025
2. “How to differentiate a Lie ∞ -group”
 Algebraic Geometry and Topology Seminar
 George Mason University
November 2024

3. "Formal deformation problems and the unicity of homotopy transfer"
 Melbourne Topology Seminar
 University of Melbourne, Melbourne, Australia
October 2023
4. "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
5. "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
6. "Parenthesized chord diagrams, graph complexes, and Chern characters"
 Cascade Topology Conference
 Boise State University
November 2021
7. "Homotopy theory for Kan simplicial manifolds"
 Peripatetic Seminar
 Department of Mathematics, University of Calgary
April 2021
8. "Which homotopy algebras come from transfer?"
 3rd International Conference on Operad Theory and Related Topics
 Jilin University, China
September 2020
9. "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)
10. "Lie's 3rd Theorem for L_∞ -algebras"
 Deformation Theory Seminar
 Department of Mathematics, University of Pennsylvania
April 2020 (postponed due to COVID-19 pandemic)
11. "Explicit models of homotopy theories for L_∞ -algebras and applications"
 Algebraic Topology Seminar
 Institute of Mathematics Czech Academy of Sciences, Czech Republic
July 2019
12. "Homotopy theory for Kan simplicial manifolds"
 Geometry and Topology Seminar
 Department of Mathematics, University of California, Irvine
April 2019

13. "Homotopical applications of convolution"
 International Conference on Operad Theory and Related Topics
 Anhui University, Hefei, China
November 2018
14. "Homotopy transfer as a deformation problem"
 Department Colloquium
 Department of Mathematical Sciences, Montana State University
March 2018
15. "Formal deformation problems and the unicity of homotopy transfer"
 Recent Developments in Noncommutative Algebra and Related Areas
 University of Washington, Seattle, WA
March 2018
16. "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
17. "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
18. "Towards an adjunction between the homotopy theories of dg manifolds and Lie ∞ -groupoids"
 BIRS-CMO Workshop: Field Theories and Higher Structures in Mathematics and Physics
 Casa Matemática Oaxaca, Mexico
June 2017
19. "Homotopical properties of the simplicial Maurer–Cartan functor"
 Deformation Theory Seminar
 Department of Mathematics, University of Pennsylvania
March 2017
20. "From Hamiltonian mechanics to homotopical Lie theory"
 Department Seminar
 Department of Mathematics, University of California, Riverside
December 2016
21. "Integrating quasi-isomorphisms between L_∞ -algebras"
 Special Session on Topology and Physics
 AMS 2016 Fall Central Sectional Meeting, Minneapolis, MN
October 2016
22. "What do homotopy algebras form?"
 Program on Higher Structures in Geometry and Physics
 MATRIX Research Institute, University of Melbourne, Australia
June 2016

23. "From Hamiltonian mechanics to homotopical Lie theory"
 Department Colloquium
 Department of Mathematics & Statistics, University of Nevada, Reno
April 2016
24. "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
25. "What do homotopy algebras form?"
 Special Session on Cohomology of Algebras and Deformation Theory
 AMS 2015 Fall Central Sectional Meeting, Chicago, IL
October 2015
26. "Equivariant cohomology, homotopy moment maps, and gauged sigma models"
 Lie Group and Moduli Space Seminar
 University of Geneva, Switzerland
April 2015
27. "From Hamiltonian mechanics to homotopical Lie theory"
 Department Colloquium
 Department of Mathematics, University of Louisiana at Lafayette
March 2015
28. "From Hamiltonian mechanics to homotopical Lie theory"
 Symposium on Mathematical Physics
 University of Zürich, Switzerland
November 2014
29. "What do homotopy algebras form?"
 Workshop on String Geometry and Loop Spaces
 University of Greifswald, Germany
July 2014
30. "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
31. "What do homotopy algebras form?"
 Conference on Higher Lie Theory
 University of Luxembourg, Luxembourg
December 2013
32. "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

33. " L_∞ -algebras and geometric prequantization"
 Algebraic Analysis and Geometry Workshop
 University of Padua, Italy
September 2013
34. "Lie algebras up to homotopy and the geometry of closed differential forms"
 Department Colloquium
 Department of Mathematics & Statistics, University of Nevada, Reno
August 2013
35. "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
36. "Higher symplectic geometry"
 XXI International Fall Workshop on Geometry and Physics
 Universidad de Burgos, Spain
August 2012
37. "Towards higher geometric quantization"
 Higher Structures in China III
 Jilin University, China
August 2012
38. "Towards higher geometric quantization"
 Higher Differential Geometry Seminar
 Max Planck Institute for Mathematics, Bonn, Germany
May 2012
39. "Towards higher geometric quantization"
 Mathematical Physics Seminar
 Department of Mathematics, University of Hamburg, Germany
March 2012
40. "Lie algebras up to homotopy and generalized geometry"
 Algebra and Geometry Seminar
 Department of Mathematics, Sapienza Università di Roma, Italy
February 2012
41. "Higher geometric quantization"
 Higher Structures in Mathematics and Physics 2011
 University of Göttingen, Germany
November 2011
42. "Higher symplectic geometry and geometric quantization"
 Quarterly Seminar on Topology and Geometry
 Utrecht University, Netherlands
October 2011

43. " L_∞ -algebras from higher symplectic geometry"
 Special Session on Physically Inspired Higher Homotopy Algebra
 AMS 2011 Spring Eastern Sectional Meeting, Worcester, MA
April 2011
44. " L_∞ -algebras from higher symplectic geometry"
 Deformation Theory Seminar
 Department of Mathematics, University of Pennsylvania
November 2010
45. "Mini-course on categorified symplectic geometry"
 ESI Program on Higher Structures in Mathematics and Physics
 Erwin Schrödinger Institute, University of Vienna, Austria
October 2010
46. " L_∞ -algebras from multisymplectic geometry"
 Differential Geometry Seminar
 Department of Mathematics, University of California, Riverside
May 2010
47. "An invitation to higher symplectic geometry"
 Séminaire Mathématique
 Unité de Recherche en Mathématiques, University of Luxembourg, Luxembourg
January 2010
48. "Lie 2-algebras, 2-plectic geometry, and strings"
 String Theory Seminar
 Department of Mathematics, University of California, Davis
May 2009
49. "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)

- 2024 Homotopical Algebra and Higher Structures
 Mathematical Research Institute of Oberwolfach (Oberwolfach, Germany)
August 2024
- 2022 Workshop on Algebra, Topology, and the Grothendieck-Teichmüller Group
 SwissMAP Research Station (Les Diablerets, Switzerland)
August 2022
- 2022 Workshop on Poisson Geometry, Lie Groupoids and Differentiable Stacks
 Banff International Research Station for Mathematical Discovery, Canada
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

- 2024 – Christopher Solomon, University of Nevada, Reno
Thesis topic: TBD
- 2023 – Yezenia Poulsen, University of Nevada, Reno
Thesis topic: TBD
- 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_∞ -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

- 2024 – Jeffrey Nubla, University of Nevada, Reno
Thesis topic: TBD
- 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 2025 Math 780: Rational Homotopy Theory
Fall 2024 Math 780: Topics in Commutative Algebra and Algebraic Geometry
Fall 2024 Math 441/641: Introduction to Algebraic Topology
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

<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>	<i>Proceedings of the American Mathematical Society</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)

- 2025 – Department Annual Evaluation and Merit Committee Chair
- 2024 – UNR Homological Algebra Oberseminar (founder and organizer)
- 2022 – Department research mentor for junior tenure-track faculty
- 2022 – 2023 Department Annual Evaluation and Merit Committee
- 2019 – 2023 Algebraic and Geometric Topology Seminar organizer
- 2017 – 2023 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