

At-A-Glance Schedule



Conference on Applied Algebraic Geometry

July 7–11, 2025 • University of Wisconsin-Madison, Madison, Wisconsin, U.S.

Online Program and Mobile App

Attendees are encouraged to view the Online Program Schedule:

<https://www.siam.org/conferences-events/siam-conferences/ag25/program/program-abstracts/>

The Mobile App and Online Program Schedule contain the most up-to-date information.
A searchable abstract document is also posted.

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Sunday, July 6**4:00 p.m. – 6:00 p.m.**

Registration

*Varsity Lounge, Union South, 2nd level***Monday, July 7****7:45 a.m. – 4:45 p.m.**

Registration

*Varsity Lounge, Union South, 2nd level***8:45 a.m. – 9:00 a.m.**

Welcome Remarks

*Varsity Hall II/III, Union South, 2nd level***9:00 a.m. – 10:00 a.m.****IP1** Orthogonally-Equivariant Dimensionality

Reduction in Stiefel Manifolds

Jose Perea, Northeastern University, U.S.

*Varsity Hall II/III, Union South, 2nd level***10:00 a.m. – 10:30 a.m.**

Coffee Break

*Varsity Hall I, Union South, 2nd level***10:30 a.m. – 12:30 p.m.****Concurrent Sessions****MT1** Metric Algebraic Geometry*Northwoods A, Union South, 3rd level***MS1** Numerical and Certified Methods in Algebraic Geometry - Part I of II*Varsity Hall II/III, Union South, 2nd level***MS2** Polynomial Dynamical Systems and Reaction Networks in Biology - Part I of IV*The Marquee, Union South, 2nd level***MS3** Algebraic and Geometric Methods in Coding Theory - Part I of III*DeLuca Forum (Room 1255), Discovery Building***MS4** Discrete Mathematics and Coding Theory - Part I of III*Orchard View (Room 3280), Discovery Building***MS5** Beyond the Barcode: Emerging Methods in Applied Algebraic Topology*Fifth Quarter Studio, Union South, 2nd level***MS6** Toric Geometry in Algebraic Statistics - Part I of II*Agriculture, Union South, 3rd level***MS7** Real Algebraic Geometry, Semidefinite Optimization and Applications - Part I of IV*Industry A, Union South, 3rd level***MS8** (Multi)graded Structures: Castelnuovo-Mumford Regularity and Applications - Part I of III*Traditions, Union South, 2nd level***MS9** Algebraic Geometry in Imaging - Part I of IV*Wisconsin Idea, Union South, 2nd level***MS10** Quantum Information Theory and Geometry - Part I of III*Northwoods B, Union South, 3rd level***Monday, July 7****MS11** Algebra and Geometry of the Quantum

Many-body Problem - Part I of II

*Industry B, Union South, 3rd level***MS12** Symbolic Combinatorics - Part I of II*Landmark A, Union South, 3rd level***12:30 p.m. – 2:00 p.m.**

Lunch Break

2:00 p.m. – 4:00 p.m.**Concurrent Sessions****MT2** Topological and Geometric Methods in Neuroscience*Northwoods A, Union South, 3rd level***MS13** Numerical and Certified Methods in Algebraic Geometry - Part II of II*Varsity Hall II/III, Union South, 2nd level***MS14** Polynomial Dynamical Systems and Reaction Networks in Biology - Part II of IV*The Marquee, Union South, 2nd level***MS15** Algebraic and Geometric Methods in Coding Theory - Part II of III*DeLuca Forum (Room 1255), Discovery Building***MS16** Discrete Mathematics and Coding Theory - Part II of III*Orchard View (Room 3280), Discovery Building***MS17** Applications of Algebraic Geometry to the Ranks of Tensors*Fifth Quarter Studio, Union South, 2nd level***MS18** Toric Geometry in Algebraic Statistics - Part II of II*Agriculture, Union South, 3rd level***MS19** Real Algebraic Geometry, Semidefinite Optimization and Applications - Part II of IV*Industry A, Union South, 3rd level***MS20** *CANCELED* (Multi)graded Structures: Castelnuovo-Mumford Regularity and Applications**MS21** Algebraic Geometry in Imaging - Part II of IV*Wisconsin Idea, Union South, 2nd level***MS22** Quantum Information Theory and Geometry - Part II of III*Northwoods B, Union South, 3rd level***MS23** Algebra and Geometry of the Quantum Many-body Problem - Part II of II*Industry B, Union South, 3rd level***MS24** Symbolic Combinatorics - Part II of II*Landmark A, Union South, 3rd level***4:00 p.m. – 4:30 p.m.**

Coffee Break

*Varsity Hall I, Union South, 2nd level***4:30 p.m. – 5:30 p.m.****IP2** Distinguishing Phylogenetic Networks

Elizabeth Gross, University of Hawaii, U.S.

*Varsity Hall II/III, Union South, 2nd level***Monday, July 7****5:30 p.m. – 7:30 p.m.****PP1** Welcome Reception and Poster Session*DeLuca Forum Atrium, Discovery Building***Tuesday, July 8****8:30 a.m. – 4:45 p.m.**

Registration

*Varsity Lounge, Union South, 2nd level***8:55 a.m. – 9:00 a.m.**

Remarks

*Varsity Hall II/III, Union South, 2nd level***9:00 a.m. – 10:00 a.m.****IP3** Marginal Independence and Partial Set

Partitions

Seth Sullivant, North Carolina State University, U.S.

*Varsity Hall II/III, Union South, 2nd level***10:00 a.m. – 10:30 a.m.**

Coffee Break

*Varsity Hall I, Union South, 2nd level***10:30 a.m. – 12:30 p.m.****Concurrent Sessions****MS25** Algebraic Structure in Numerical Computations*Varsity Hall II/III, Union South, 2nd level***MS26** Polynomial Dynamical Systems and Reaction Networks in Biology - Part III of IV*The Marquee, Union South, 2nd level***MS27** Algebraic and Geometric Methods in Coding Theory - Part III of III*DeLuca Forum (Room 1255), Discovery Building***MS28** Discrete Mathematics and Coding Theory - Part III of III*Orchard View (Room 3280), Discovery Building***MS29** Tensors in Applications - Part I of IV*Fifth Quarter Studio, Union South, 2nd level***MS30** Applications of Topology in Biological Systems*Northwoods A, Union South, 3rd level***MS31** Learning from Relational Data: The Algebraic and Geometric Perspectives*Agriculture, Union South, 3rd level***MS32** Real Algebraic Geometry, Semidefinite Optimization and Applications - Part III of IV*Industry A, Union South, 3rd level***MS33** (Multi)graded Structures: Castelnuovo-Mumford Regularity and Applications - Part II of III*Traditions, Union South, 2nd level***MS34** Algebraic Geometry in Imaging - Part III of IV*Wisconsin Idea, Union South, 2nd level*

Tuesday, July 8

MS35 Quantum Information Theory and Geometry
- Part III of III

Northwoods B, Union South, 3rd level

MS36 Rigidity and Data - Part I of II

Industry B, Union South, 3rd level

MS37 Algorithms & Implementations in Effective
Algebraic Geometry - Part I of II

Landmark A, Union South, 3rd level

CP1 Algebra, Geometry, and Topology - Part I of
IV

Landmark A, Union South, 3rd level

12:30 p.m. – 2:00 p.m.

Lunch Break

2:00 p.m. – 4:00 p.m.

Concurrent Sessions

MS38 Real Solutions in Numerical Algebraic
Geometry - Part I of III

Varsity Hall II/III, Union South, 2nd level

MS39 Polynomial Dynamical Systems and Reaction
Networks in Biology - Part IV of IV

The Marquee, Union South, 2nd level

MS40 Packing Problem in Coding Theory - Part I
of III

DeLuca Forum (Room 1255), Discovery Building

MS41 Applications of Isogenies in Cryptography -
Part I of III

Orchard View (Room 3280), Discovery Building

MS42 Tensors in Applications - Part II of IV

Fifth Quarter Studio, Union South, 2nd level

MS43 Topology and Geometry in Neuroscience -
Part I of III

Northwoods A, Union South, 3rd level

MS44 Algebraic Methods in Parameter

Identifiability and Submodel Selection

Agriculture, Union South, 3rd level

MS45 Real Algebraic Geometry, Semidefinite
Optimization and Applications - Part IV of IV

Industry A, Union South, 3rd level

MS46 (Multi)graded Structures: Castelnovo-
Mumford Regularity and Applications - Part III of
III

Traditions, Union South, 2nd level

MS47 Algebraic Geometry in Imaging - Part IV of
IV

Wisconsin Idea, Union South, 2nd level

MS48 Tropical Linear Spaces, Matroids, and
Representation Theory

Northwoods B, Union South, 3rd level

MS49 Rigidity and Data - Part II of II

Industry B, Union South, 3rd level

MS50 Algorithms & Implementations in Effective
Algebraic Geometry - Part II of II

Landmark A, Union South, 3rd level

CP2 Algebra, Geometry, and Topology - Part II of
IV

Landmark A, Union South, 3rd level

Tuesday, July 8

4:00 p.m. – 4:30 p.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

4:30 p.m. – 5:30 p.m.

IP4 Symmetry in Machine Learning Models
Stefanie Jegelka, Massachusetts Institute of
Technology, U.S.

Varsity Hall II/III, Union South, 2nd level

5:30 p.m. – 5:45 p.m.

Intermission

5:45 p.m. – 6:30 p.m.

SP1 SIAM Activity Group on Algebraic Geometry

Agnes Szanto Early Career Prize Lecture:

Discriminants in Particle Physics

Simon Telen, Max Planck Institute for Mathematics
in the Sciences, Germany

Varsity Hall II/III, Union South, 2nd level

7:00 p.m. – 10:00 p.m.

SIAGA Editorial Board Meeting

Wednesday, July 9

8:30 a.m. – 4:45 p.m.

Registration

Varsity Lounge, Union South, 2nd level

8:55 a.m. – 9:00 a.m.

Remarks

Varsity Hall II/III, Union South, 2nd level

9:00 a.m. – 10:00 a.m.

IP5 Application Driven Topological Data Analysis

Heather Harrington, Max Planck Institute of
Molecular Cell Biology and Genetics, Germany

Varsity Hall II/III, Union South, 2nd level

10:00 a.m. – 10:30 a.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

10:30 a.m. – 12:30 p.m.

Concurrent Sessions

MS51 Real Solutions in Numerical Algebraic
Geometry - Part II of III

Varsity Hall II/III, Union South, 2nd level

MS52 New Frontiers of Geometry and
Combinatorics in Machine Learning - Part I of III

The Marquee, Union South, 2nd level

MS53 Packing Problem in Coding Theory - Part II
of III

DeLuca Forum (Room 1255), Discovery Building

Wednesday, July 9

MS54 Applications of Isogenies in Cryptography -
Part II of III

Orchard View (Room 3280), Discovery Building

MS55 Tensors in Applications - Part III of IV

Fifth Quarter Studio, Union South, 2nd level

MS56 Topology and Geometry in Neuroscience -
Part II of III

Northwoods A, Union South, 3rd level

MS57 Algebraic Methods for Evolutionary Biology
and Ecology - Part I of II

Agriculture, Union South, 3rd level

MS58 The Intersection of Polynomial Optimization,
Dynamics, and Combinatorics - Part I of II

Industry A, Union South, 3rd level

MS59 Discriminants in the Sciences - Part I of III
Traditions, Union South, 2nd level

MS60 Algebraic, Geometric and Analytic Methods
for Reaction Networks

Wisconsin Idea, Union South, 2nd level

MS61 Computational Tropical Geometry - Part I
of III

Northwoods B, Union South, 3rd level

MS62 Evaluating Integrals - Part I of II

Industry B, Union South, 3rd level

MS63 Gröbner, SAGBI and Homotopy
Continuation Methods for Polynomial Equations -
Part I of II

Landmark A, Union South, 3rd level

CP3 Algebra, Geometry, and Topology - Part III
of IV

Landmark A, Union South, 3rd level

12:30 p.m. – 2:00 p.m.

Lunch Break

2:00 p.m. – 4:00 p.m.

Concurrent Sessions

MS64 Real Solutions in Numerical Algebraic
Geometry - Part III of III

Varsity Hall II/III, Union South, 2nd level

MS65 New Frontiers of Geometry and
Combinatorics in Machine Learning - Part II of III

The Marquee, Union South, 2nd level

MS66 Packing Problem in Coding Theory - Part III
of III

DeLuca Forum (Room 1255), Discovery Building

MS67 Applications of Isogenies in Cryptography -
Part III of III

Orchard View (Room 3280), Discovery Building

MS68 Tensors in Applications - Part IV of IV

Fifth Quarter Studio, Union South, 2nd level

MS69 Topology and Geometry in Neuroscience -
Part III of III

Northwoods A, Union South, 3rd level

MS70 Algebraic Methods for Evolutionary Biology
and Ecology - Part II of II

Agriculture, Union South, 3rd level

MS71 The Intersection of Polynomial Optimization,
Dynamics, and Combinatorics - Part II of II

Industry A, Union South, 3rd level

Wednesday, July 9

MS72 Discriminants in the Sciences - Part II of III
Traditions, Union South, 2nd level

MS73 Algebraic Systems Biology - Part I of III
Wisconsin Idea, Union South, 2nd level

MS74 Computational Tropical Geometry - Part II of III

Northwoods B, Union South, 3rd level

MS75 Evaluating Integrals - Part II of II

Industry B, Union South, 3rd level

MS76 Gröbner, SAGBI and Homotopy Continuation Methods for Polynomial Equations - Part II of II

Landmark A, Union South, 3rd level

CP4 Algebra, Geometry, and Topology - Part IV of IV

Landmark A, Union South, 3rd level

4:00 p.m. – 4:30 p.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

4:30 p.m. – 5:30 p.m.

IP6 Size (OOD) Generalization of Neural Models via Algorithmic Alignment

Yusu Wang, University of California, San Diego, U.S.

Varsity Hall II/III, Union South, 2nd level

Thursday, July 10

8:30 a.m. – 4:45 p.m.

Registration

Varsity Lounge, Union South, 2nd level

8:55 a.m. – 9:00 a.m.

Remarks

Varsity Hall II/III, Union South, 2nd level

9:00 a.m. – 10:00 a.m.

IP7 Complete Monotonicity in Scattering Amplitudes

Johannes Henn, Max Planck Institute for Physics, Germany

Varsity Hall II/III, Union South, 2nd level

10:00 a.m. – 10:30 a.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

10:30 a.m. – 12:30 p.m.

Concurrent Sessions

MS77 Real Algebraic Geometry for Power Systems Engineering - Part I of II

Varsity Hall II/III, Union South, 2nd level

MS78 New Frontiers of Geometry and Combinatorics in Machine Learning - Part III of III
The Marquee, Union South, 2nd level

Thursday, July 10

MS79 Contemporary Coding Theory - Part I of IV
DeLuca Forum (Room 1255), Discovery Building

MS80 Rank-Metric Codes and Network Coding - Part I of IV

Orchard View (Room 3280), Discovery Building

MS81 Tensors in Algebraic Geometry - Part I of IV
Fifth Quarter Studio, Union South, 2nd level

MS82 *CANCELED* Gröbner Bases Computations and Applications

MS83 Phylogenetic Networks - Part I of IV

Agriculture, Union South, 3rd level

MS84 Recent Trends in Polynomial Optimization - Part I of II

Industry A, Union South, 3rd level

MS85 Discriminants in the Sciences - Part III of III
Traditions, Union South, 2nd level

MS86 Algebraic Systems Biology - Part II of III
Wisconsin Idea, Union South, 2nd level

MS87 Computational Tropical Geometry - Part III of III

Northwoods B, Union South, 3rd level

MS88 Matroids and Applications - Part I of II

Industry B, Union South, 3rd level

12:30 p.m. – 2:00 p.m.

Lunch Break

2:00 p.m. – 4:00 p.m.

Concurrent Sessions

MS89 Real Algebraic Geometry for Power Systems Engineering - Part II of II

Varsity Hall II/III, Union South, 2nd level

MS90 Algebraic Methods in Machine Learning - Part I of III

The Marquee, Union South, 2nd level

MS91 Contemporary Coding Theory - Part II of IV
DeLuca Forum (Room 1255), Discovery Building

MS92 Rank-Metric Codes and Network Coding - Part II of IV

Orchard View (Room 3280), Discovery Building

MS93 Tensors in Algebraic Geometry - Part II of IV
Fifth Quarter Studio, Union South, 2nd level

MS94 A Little Tapas of Computational and Applied Algebraic Geometry - Part I of II

Northwoods A, Union South, 3rd level

MS95 Phylogenetic Networks - Part II of IV

Agriculture, Union South, 3rd level

MS96 Recent Trends in Polynomial Optimization - Part II of II

Industry A, Union South, 3rd level

MS97 Computational Real Algebraic Geometry - Part I of III

Traditions, Union South, 2nd level

MS98 Algebraic Systems Biology - Part III of III
Wisconsin Idea, Union South, 2nd level

MS99 Real and Positive Tropical Geometry - Part I of III

Northwoods B, Union South, 3rd level

MS100 Matroids and Applications - Part II of II

Industry B, Union South, 3rd level

Thursday, July 10

MS101 Algebraic Geometry in Spectral Theory - Part I of III

Landmark A, Union South, 3rd level

4:00 p.m. – 4:30 p.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

4:30 p.m. – 5:30 p.m.

IP8 The Geometry of Polynomials for Log-concavity and Expansion

Cynthia Vinzant, University of Washington, U.S.
Varsity Hall II/III, Union South, 2nd level

5:30 p.m. – 5:45 p.m.

Intermission

5:45 p.m. – 6:45 p.m.

SIAG/AG Business Meeting

Complimentary beer and wine will be served.

Varsity Hall II/III, Union South, 2nd level

Friday, July 11

8:30 a.m. – 2:00 p.m.

Registration

Varsity Lounge, Union South, 2nd level

8:55 a.m. – 9:00 a.m.

Remarks

Varsity Hall II/III, Union South, 2nd level

9:00 a.m. – 10:00 a.m.

IP9 From Algorithms to Theorems: Some Examples From Real Algebraic Geometry

Saugata Basu, Purdue University, U.S.

Varsity Hall II/III, Union South, 2nd level

10:00 a.m. – 10:30 a.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

10:30 a.m. – 12:30 p.m.

Concurrent Sessions

MS102 Combinatorial and Computational Aspects of Positive Geometry - Part I of II

Varsity Hall II/III, Union South, 2nd level

MS103 Algebraic Methods in Machine Learning - Part II of III

The Marquee, Union South, 2nd level

MS104 Contemporary Coding Theory - Part III of IV

DeLuca Forum (Room 1255), Discovery Building

MS105 Rank-Metric Codes and Network Coding - Part III of IV

Orchard View (Room 3280), Discovery Building

Friday, July 11

Friday, July 11

MS106 Tensors in Algebraic Geometry - Part III of IV

Fifth Quarter Studio, Union South, 2nd level

MS107 A Little Tapas of Computational and Applied Algebraic Geometry - Part II of II

Northwoods A, Union South, 3rd level

MS108 Phylogenetic Networks - Part III of IV
Agriculture, Union South, 3rd level

MS109 Algebraic and Topological Methods in Computational Optimization - Part I of II
Industry A, Union South, 3rd level

MS110 Computational Real Algebraic Geometry - Part II of III

Traditions, Union South, 2nd level

MS111 Stochastic Reaction Networks - Part I of II
Wisconsin Idea, Union South, 2nd level

MS112 Real and Positive Tropical Geometry - Part II of III

Northwoods B, Union South, 3rd level

MS113 Graphical Models for Stochastic Dynamical Systems

Industry B, Union South, 3rd level

MS114 Network Rigidity and Computational Algebraic Geometry - Part I of II

Landmark A, Union South, 3rd level

MS115 Algebraic Geometry in Spectral Theory - Part II of III

Landmark A, Union South, 3rd level

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12:30 p.m. – 2:00 p.m.

Lunch Break

.....
2:00 p.m. – 4:00 p.m.

Concurrent Sessions

MS116 Combinatorial and Computational Aspects of Positive Geometry - Part II of II

Varsity Hall II/III, Union South, 2nd level

MS117 Algebraic Methods in Machine Learning - Part III of III

The Marquee, Union South, 2nd level

MS118 Contemporary Coding Theory - Part IV of IV

DeLuca Forum (Room 1255), Discovery Building

MS119 Rank-Metric Codes and Network Coding - Part IV of IV

Orchard View (Room 3280), Discovery Building

MS120 Tensors in Algebraic Geometry - Part IV of IV

Fifth Quarter Studio, Union South, 2nd level

MS122 Phylogenetic Networks - Part IV of IV
Agriculture, Union South, 3rd level

MS123 Algebraic and Topological Methods in Computational Optimization - Part II of II

Industry A, Union South, 3rd level

MS124 Computational Real Algebraic Geometry - Part III of III

Traditions, Union South, 2nd level

MS125 Stochastic Reaction Networks - Part II of II
Wisconsin Idea, Union South, 2nd level

MS126 Real and Positive Tropical Geometry - Part III of III

Northwoods B, Union South, 3rd level

MS127 Algebra, PDE and Applications

Industry B, Union South, 3rd level

MS128 Network Rigidity and Computational Algebraic Geometry - Part II of II

Landmark A, Union South, 3rd level

MS129 Algebraic Geometry in Spectral Theory - Part III of III

Landmark A, Union South, 3rd level

.....
4:00 p.m. – 4:30 p.m.

Coffee Break

Varsity Hall I, Union South, 2nd level

.....
4:30 p.m. – 5:30 p.m.

IP10 Periodic Graph Operators for Algebraic Geometers

Frank Sottile, Texas A&M University, U.S.

Varsity Hall II/III, Union South, 2nd level

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5:30 p.m. – 5:45 p.m.

Closing Remarks

Varsity Hall II/III, Union South, 2nd level

Abbreviation Key

CP = Contributed Presentation Session

IP = Invited Plenary Speaker

MS = Minisymposium

MT = Minitutorial

PP = Poster Session

SP = Special Lecture

FUNDING AGENCIES

SIAM and the Organizing Committee wish to extend their thanks and appreciation to the U.S. National Science Foundation and DOE Office of Advanced Scientific Computing Research for their support.



SIAM Activity Group on Applied Algebraic Geometry (SIAG/AG)



A great way to get involved!

Collaborate and interact with researchers who use algebraic geometry in industrial and applied mathematics. We welcome participation from theoretical mathematical areas and those areas falling under the broadly interpreted notion of algebraic geometry and its applications.

ACTIVITIES INCLUDE

- Biennial conference
- Special sessions at SIAM meetings
- SIAG/AG Agnes Szanto Early Career Prize

BENEFITS OF SIAG/AG MEMBERSHIP

- Listing in the activity group's online membership directory
- Additional discount on registration at the SIAM Conference on Applications of Dynamical Systems
- Access to the **SIAM Engage** online community for SIAG/AG
- Eligibility for candidacy for SIAG/AG office
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- Must be a current SIAM member

COST

- \$15 per year
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"SIAM is important because professional organizations are vital in bringing up students and early career scientists. Making connections and providing a coherent and consistent community that meets throughout the year is an invaluable thing. Publishing is important too, so SIAM journals are an excellent venue for in-depth work."

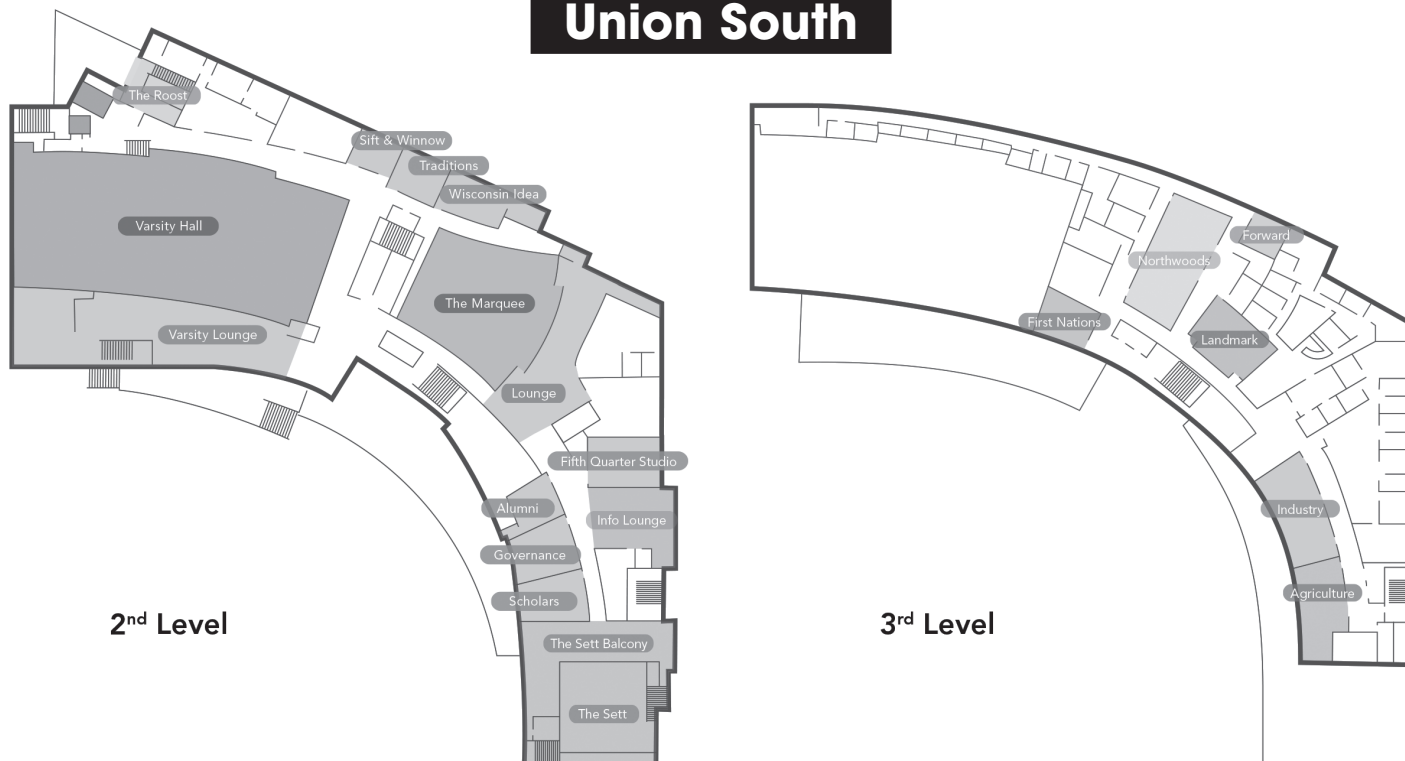
— Jed Brown, SIAM Member, University of Colorado



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University of Wisconsin-Madison Floor Plan

Union South



Discovery Building

