

Jessica C. De Silva

Department of Mathematics · California State University, Stanislaus

Curriculum Vitae

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Employment

Assistant Professor of Mathematics

California State University, Stanislaus

Turlock, CA

August 2018 – current

Education

Ph.D. in Mathematics

University of Nebraska–Lincoln

Dissertation Title: *Graphs with Few Spanning Substructures*

August 2018

M.S. in Mathematics

University of Nebraska–Lincoln

December 2014

B.A. in Mathematics

California State University, Stanislaus

May 2013

Publications

Very Well-Covered Graphs with the Erdős-Ko-Rado Property

To appear in *Involve*. J. De Silva, A. Dionne, A. Dunkelberg, P. Harris. <https://arxiv.org/pdf/2106.09067.pdf>

Anti-Ramsey Multiplicities

Australasian Journal of Combinatorics Volume 73, Issue 2 (2019). J. De Silva, X. Si, M. Tait, Y. Tuncbilek, R. Yang, M. Young. http://ajc.maths.uq.edu.au/pdf/73/ajc_v73_p357.pdf

Turán Numbers of Vertex-Disjoint Cliques in r -Partite Graphs

Discrete Mathematics Volume 341, Issue 2 (2017). J. De Silva, K. Heysse, A. Kapilow, A. Schenfisch, M. Young.

<https://authors.elsevier.com/a/1W53-,H-cBBFY>

Increasing Paths in Edge-Ordered Graphs: The Hypercube and Random Graph

The Electronic Journal of Combinatorics Volume 23, Issue 2 (2016). J. De Silva, T. Molla, F. Pfender, T. Retter, M.

Tait. <http://www.combinatorics.org/ojs/index.php/eljc/article/view/v23i2p15>

On the Distance Spectra of Graphs

Linear Algebra and Its Applications Volume 497, (2016), 66–87. G. Aalipour, A. Abiad, Z. Berikkyzy, S. Butler, J.

Cummings, J. De Silva, W. Gao, K. Heysse, L. Hogben, F. Kenter, J. Lin, M. Tait. <http://arxiv.org/abs/1509.01196>

Hat-Guessing Strategies and the Cooperative Card Game Hanabi

Mathematics Magazine, Volume 88, No. 5 (2015), pp. 323–336. C. Cox, J. De Silva, P. DeOrsey, F. Kenter, T. Retter,

R.J. Tobin. <http://www.jstor.org/stable/10.4169/math.mag.88.5.323>

The Combinatorics of Interval Vector Polytopes

The Electronic Journal of Combinatorics, Volume 20 Issue 3 (2013). J. De Silva, G. Dorfsman-Hopkins, J. Pruitt, A.

Ruiz, M. Beck. <http://www.combinatorics.org/ojs/index.php/eljc/article/view/v20i3p22>

The Alignment of Arbitrary Contours Using Area Difference Distance Measurement

SIAM Undergraduate Research Online, Volume 5 (2012). J. De Silva, K. Murata, J. An.

<http://www.siam.org/students/siuro/vol5/S01181.pdf>

Preprints

An analysis of a fair division protocol for drawing legislative districts

Under revision. J. De Silva, B. Gales, B. Kagy, D. Offner. <http://arxiv.org/pdf/1811.05705.pdf>

Newsletters and Blogposts

A Virtual Summer at Lawrence Berkeley National Laboratory

BIG Math Network (2021). J. De Silva.

<https://bigmathnetwork.org/2021/05/31/a-virtual-summer-at-lawrence-berkeley-national-laboratory/>

Pacific Math Alliance holds first conference

Math Alliance Newsletter August Issue (2020). J. De Silva.

<https://mathalliance.org/wp-content/uploads/2020/09/August.pdf>

In Preparation

Graphs with Few Spanning Pseudoforests

J. De Silva, A. J. Radcliffe.

Grants & Awards

Grants and funding

National Science Foundation Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Program	Fall 2022
(PI) Collaborative grant with Fresno State and Cal State East Bay.	(in preparation)
California E-Learning Lab Grant: Seeding Strategies to Close the Calculus Equity Gap	Spring 2022
(co-PI, lead writer) <i>College Algebra: A Mastery-Based Grading Approach</i> .	\$100,000 (awarded)
National Science Foundation Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) Planning Grant	Spring 2022
(PI) Collaborative planning grant with Fresno State and Cal State East Bay.	\$100,000 (awarded)
National Science Foundation Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences (LEAPS-MPS)	Spring 2022
(PI) <i>The Erdős-Ko-Rado Property of Well-Covered Graphs</i>	\$249,343 (awarded)
National Science Foundation Improving Undergraduate STEM Education (IUSE)	Winter 2022
(PI) Collaborative grant with Humboldt State and CSU Long Beach.	\$300,000 (declined)
Stanislaus State College of Science Faculty and Staff Development Funds	Spring 2022
Request for funding to support participation in Spring 2022 AMS Spring Central Sectional Meeting.	\$103 (awarded)
Stanislaus State Research, Scholarship, and Creative Activities Grant	Spring 2022 – Fall 2022
(PI) <i>Combinatorial Properties of the Valuation Polytope</i>	\$7,684 (awarded)
Stanislaus State College of Science Faculty and Staff Development Funds	Fall 2021 – Spring 2022
Request for funding to support participation in CSU Alliance for Diversity & Strengths of STEM Early-Career Faculty.	\$1,800 (awarded)
Creating Equitable Pathways to STEM Graduate Education	Spring 2021
Letter of interest submitted for collaborative Solan Foundation grant with UC Merced and Humboldt State.	(declined)
2021 Visiting Faculty Program	Summer 2021
Department of Energy at Lawrence Berkeley National Laboratory	\$27,000 (awarded)

National Science Foundation Harnessing the Data Revolution: Data Science Corps

(PI) Collaborative grant with Fresno State and UC Merced.

Spring 2021

\$1,500,000 (declined)

Stan State College of Science Faculty Development Fund Award

Support to attend the 2021 CanaDAM Online Meeting.

Spring 2021

\$45 (awarded)

HHMI IE3 Phase 1 Learning Grant

(co-PI) Howard Hughes Medical Institute Inclusive Excellence 3 learning grant with PI Janey Youngblom.

Spring 2021

\$30,000 (accepted)

Dataquest & AI Inclusive Underrepresented Genders Scholarship

Support for six months of premium access to Dataquest content.

Fall 2020

\$294 (awarded)

2020 SACNAS Registration Scholarship

Funded by the Mathematical Sciences Research Institute.

Fall 2020

\$310 (awarded)

HHMI IE3 Pre-Proposal*

(co-PI) Howard Hughes Medical Institute Inclusive Excellence 3 grant.

*Competition delayed due to COVID-19.

Fall 2020

(accepted)

PUMP Undergraduate Research Group Grant

Preparing Undergraduates through Mentoring toward PhDs

Fall 2020–Spring 2021

\$11,000 (awarded)

Innovate, Design, Excel & Assess for Success (IDEAS) Grant*

(co-PI) Collaborative Stanislaus State proposal with PI Iqbal Atwal.

*Postponed due to COVID-19.

Spring 2020

(proposal submitted)

2020 Pacific Math Alliance Conference*

(co-PI) National Science Foundation Conferences and Workshops in the Mathematical Sciences

*Cancelled due to COVID-19.

Fall 2019–Spring 2020

(proposal prepared)

2020 Visiting Faculty Program

Department of Energy at Lawrence Berkeley National Laboratory

Summer 2020

\$36,000 (awarded)

2019 Pacific Math Alliance Conference

(co-PI) National Science Foundation DMS - 1931009

Summer 2019 – Spring 2020

\$28,000 (awarded)

Stanislaus State College of Science Faculty and Staff Development Funds

2019 PIC Math Summer Workshop Travel Grant

Spring 2019 – Summer 2019

\$1,485 (awarded)

Women and Mathematics Ambassador for the IAS

Support for weekend conference funded by the Institute for Advanced Study.

Fall 2017 – Spring 2018

\$2,500 (awarded)

Mini-Collaboration Grant

Grant funded by the NSF and NSA to visit research collaborators.

Fall 2016 – Spring 2017

\$1,500 (awarded)

NSF Graduate Student Research Fellowship

The NSF-GRFP recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines.

Fall 2013 – Spring 2018

\$138,000 (awarded)

Awards

STEM-NET Faculty Fellow

Awarded 6 WTUs of assigned time for grant-related scholarly activity.

2021-22, 2022-23 AY
CSU STEM-NET

Exceptional Service to Students Award

Awarded 3 WTUs of assigned time.

Spring 2020
Stanislaus State

Sustainable Research Pathways 2019

Sustainable Horizons Institute

Fall 2019
Lawrence Berkeley
National Laboratory

2018 Lathisms Honoree

Lathisms features prominently the extent of the research and mentoring contributions of Latinxs and Hispanics in different areas of the Mathematical Sciences.

*Fall 2018***Walter Mientka Graduate Teaching Award**

Department award given annually to one graduate student for excellence in teaching.

Fall 2016
University of Nebraska–Lincoln

Outstanding First Year Graduate Student Award

Department award given annually to one successful first year student.

Fall 2014
University of Nebraska–Lincoln

J. Burton Vasche Award

Awarded to one outstanding Stanislaus State senior at commencement.

Spring 2013
Stanislaus State

Undergraduate Research Projects**EV Charging Desert: The Challenges with Vehicle Charging in Stanislaus County**

Delton Boswell (Computer Science); Honors Capstone Project

Spring 2022 – current
Stanislaus State

Parameter Tuning of Convolutional Neural Network Models

Sherly Yaghoubi (Computer Science & Mathematics); Honors Capstone Project

Spring 2022 – current
Stanislaus State

Track & Field Data Science Project

Rommell Pennell (Physics & Astronomy).

Spring 2020, 2022 – current
Stanislaus State

COVID-19 Data Visualization

Oscar Rodriguez (Computer Science); funded by RISE.

Fall 2021
Stanislaus State

A Robust Image Segmentation Algorithm

Sherly Yaghoubi (Computer Science & Mathematics); funded by VFP.

Summer 2021
Lawrence Berkeley
National Laboratory

Searching for Erdős-Ko-Rado Graphs

Co-mentored Mathematics students with Pamela Harris at Williams College.
 Williams College Students: Adam Dionne and Aidan Dunkelberg

Spring 2021
Williams College

Game Theoretic Analysis of Pokémon GO

Co-mentored Computer Science students with Jonathan Brown at Bakersfield College.
 Bakersfield College Students: Pablo Castro and Edenilson Zetino
 Stan Student: Kevin Lopez; funded by RISE

Fall 2020 – Spring 2021
Stanislaus State

Applying Data Techniques to Cellular Biology

Jesselyn LaBelle (Mathematics); funded by RISE.

Fall 2020 – Spring 2022
Stanislaus State

Mean-Shift Algorithm in C++

Andrew Aguilar (Computer Science) and Jasmin Rodriguez (Mathematics).

Fall 2020 – Spring 2021
Stanislaus State

Analysis of Mathematics Major Success at Stanislaus State

Aaron Cordeiro (Mathematics) and Sherly Yaghoubi (Computer Science & Mathematics); funded by PUMP URG.

Fall 2020 – Spring 2021
Stanislaus State

A Hypergraph-based Image Segmentation Algorithm

Darcy Brunk (Mathematics) and Juan Valencia (Mathematics); funded by VFP and SERSCA.

Summer 2020 – Spring 2021
Stanislaus State

Data Science Projects

Andrew Aguilar (Computer Science), Kevin Lopez (Computer Science), Jasmin Rodriguez (Mathematics), Juan Valencia (Mathematics); funded by CSU-LSAMP and RISE.

Fall 2019 – Spring 2020

Stanislaus State

Campus Walkability

Andrew Aguilar (Computer Science), Samantha Batham (Chemistry), Felice Dacpano (Chemistry), Morgan Hogue (Physics & Astronomy), Teresa Martin (Mathematics), Jonathan Moss (Computer Science), Jasmin Rodriguez (Mathematics), Juan Valencia (Mathematics).

Spring 2019

Stanislaus State

Summer Research Co-Advisor

Summer Undergraduate Applied Mathematics Institute at Carnegie Mellon University.

Summer 2017, 2018

SUAMI

Invited Talks**Measure Theory Lecturer**

Enhancing Diversity in Graduate Education: A Program for Women

Summer 2022

University of Oxford, UK

Well-Covered Graphs with the EKR-Property

Special Session on Recent Trends in Graph Theory

Spring 2022

AMS Central Sectional Meeting

Well-Covered Graphs with the EKR-Property

MSRI-UP: Then, Now, and Upcoming

Spring 2022

Joint Mathematics Meetings

The Valuation Polytope of the Zig-Zag Poset 1

Latinxs in Combinatorics

Spring 2022

Joint Mathematics Meetings

Searching for Erdős-Ko-Rado Graphs

UC Berkeley Combinatorics Seminar

Fall 2021

UC Berkeley

Searching for Erdős-Ko-Rado Graphs

UC Davis Algebra and Discrete Math Seminar

Fall 2021

UC Davis

On the Valuation Polytope of the Zig-Zag Poset

Latinx Mathematical Research Community

Fall 2021

LMRC Colloquium

Image Segmentation via Hypergraph-based MRF Models

Canadian Discrete and Algorithmic Mathematics Conference

Spring 2021

CanaDAM Online Meeting

Gerrymandering: A Piece of Cake

Finite Mathematics Course Guest Speaker

Spring 2021

Soka University of America

A Virtual Summer at Lawrence Berkeley National Laboratory

Humboldt State Mathematics Department Colloquium

Spring 2021

Humboldt State

A Virtual Summer at Lawrence Berkeley National Laboratory

San Jose State Mathematics Department Colloquium

Spring 2021

San Jose State

Image Segmentation via Hypergraph-based MRF Models

If You Build It They Will Come: Presentations by Scholars in the National Alliance for Doctoral Studies in the Mathematical Sciences

Spring 2021

Joint Mathematics Meetings

Graphs with Few Spanning Pseudoforests

Women in Combinatorics Virtual Colloquium

Fall 2020

Women in Combinatorics

A Virtual Summer at Lawrence Berkeley National Laboratory

Cal State East Bay Mathematics Department Colloquium

Fall 2020

Cal State East Bay

<i>A Virtual Summer at Lawrence Berkeley National Laboratory</i> Sonoma State Mathematics Department Colloquium	Fall 2020 Sonoma State University
<i>A Hypergraph Image Segmentation Algorithm</i> Data Analytics and Visualization Research Group	Summer 2020 Lawrence Berkeley National Laboratory
<i>The (Data) Science of Instagram Filters*</i> Dinner with the Scientists *Postponed due to COVID-19.	Spring 2020 Stanislaus State
<i>Graphs with few Spanning Pseudoforests</i> Women in Mathematics Special Session *Cancelled due to COVID-19.	Spring 2020* AMS Western Sectional
<i>Graphs with few Spanning Pseudoforests</i> Algebra, Geometry, and Combinatorics Seminar	Meeting Spring 2019 San Francisco State University
<i>A Graph Theorist's Perspective on the Card Game SET</i> Celebrating Women in Mathematics Colloquium Series	Spring 2019 Fresno State
<i>Mathematics and Nutrition</i> Central California Mathematics Project	Fall 2018 Stanislaus State
<i>Inspiration from a Former CSU Fellow</i> NSF-GRFP Writing Workshop	Fall 2018 CSUPERB Symposium
<i>Hat Guessing and Hanabi</i> Distinguished Women in Mathematics Lecture Series	Spring 2017 San Francisco State University
<i>Transitioning to Graduate School</i> New Graduate Student Welcome	Fall 2016 University of Nebraska–Lincoln
AMS Southeastern Sectional Meeting <i>The Complexity of ℓ-Hamilton Cycles in Hypergraphs</i>	Spring 2016 North Dakota State University
<i>Hat Guessing and Hanabi</i> Math Club	Spring 2016 Nebraska Wesleyan University
<i>If All You Have is Thor's Hammer</i> ISU Discrete Math Seminar	Spring 2016 Iowa State University
<i>Hat Guessing and Hanabi</i> Joint Mathematics Meetings	Spring 2016 Seattle, WA
Flash Research Presentations Short talks for meetings and programs within the College of Science.	Fall 2018 – Spring 2019 Stanislaus State
Contributed Talks and Panels 11 conference and seminar research talks and 11 invited graduate school panels.	2013 – 2018

Professional Development

Faculty Learning Community: Teaching for Equity, Social Justice, Anti-Racism (STEM) Supported by Stanislaus State's HHMI IE3 grant.	Spring 2022 Stanislaus State
CSU Alliance for Diversity & Strengths of STEM Early-Career Faculty Supported by an NSF AGEF grant.	Fall 2021 – Spring 2022 CSU System

Faculty Fellow in Mathematics

Supported by Stanislaus State's HSI-STEM grant.

Fall 2021 – Spring 2022

Stanislaus State

Enhancing Equity Initiatives: Climbing Out of Traps and Tropes to make Transformative Change

Hosted by The Center for Minorities in the Mathematical Sciences.

Summer 2021

Virtual

Advanced Workshop in Data Science for Mathematical Sciences Faculty

Supported by the MAA, SIAM, and TRIPODS.

Summer 2021

Virtual

Latinx Mathematical Research Community

Supported by the American Institute of Mathematics.

Summer 2021

Virtual

A DEI Workshop for REU Directors and Faculty Mentors

Hosted by The Center for Minorities in the Mathematical Sciences.

Spring 2021

Virtual

Advocating for Students of Color in the Mathematics Community

Professional development experience hosted by the American Mathematical Society.

Fall 2020

Virtual

The Meaning of Racial Equity

Webinar part of the Learning Lab's Equity Conversation Series.

Fall 2020

Virtual

paraDIGMS Fall Conference

Conference hosted by the American Mathematical Society.

Fall 2020

Virtual

2020 CRA-WP Early and Mid Career Mentoring Workshop

Hosted by the Computing Research Association.

Fall 2020

Virtual

Broadening Participation: 2020 MPS Workshop for New Investigators

Hosted by the University of Florida in collaboration with the NSF Directorate for Mathematical and Physical Sciences (MPS).

Fall 2020

Virtual

Field of Dreams Conference

An Institute for Mathematics and its Applications and National Alliance workshop.

Fall 2020

Virtual

Career Paths in the Mathematical Sciences

An Institute for Mathematics and its Applications and National Alliance workshop.

Summer 2020

Virtual

PIC Math Summer Workshop in Data Science

Preparing for Industrial Careers in Mathematical Sciences

Summer 2019

Brigham Young University

CIENCIA Summer Institute

The Collaboration for Inclusive and Engaging Curriculum, Instruction, and Achievement

Summer 2019

Stanislaus State

USTARS Early Career Faculty Workshop

Underrepresented Students in Topology and Algebra Research Symposium

Spring 2019

Iowa State University

Certificate in Inclusive Teaching

Spring 2019 – current

Stanislaus State

Service**Department & University Service****University Search Committee**

Dean of the College of Science

Fall 2022

Stanislaus State

University Faculty Development Committee Member	<i>Fall 2022 – current</i> <i>Stanislaus State</i>
University Search Committee Associate Vice President of Academic Affairs	<i>Spring 2022</i> <i>Stanislaus State</i>
Department of Mathematics Search Committee Member Assistant Professor of Mathematics	<i>Fall 2021 – Spring 2022</i> <i>Stanislaus State</i>
Department Committee on Committees Chair	<i>Fall 2021 – Spring 2022</i> <i>Stanislaus State</i>
University Committee on Committees Member	<i>Fall 2021 – current</i> <i>Stanislaus State</i>
Department Elevation Committee Chair	<i>Fall 2021 – Spring 2022</i> <i>Stanislaus State</i>
Department Placement Testing Coordinator	<i>Spring 2020</i> <i>Stanislaus State</i>
Graduate Program Development Working Group Member Department of Mathematics	<i>Fall 2019 – current</i> <i>Stanislaus State</i>
Department Committee for the Evaluation of Temporary Faculty Chair	<i>Fall 2019 – Spring 2021</i> <i>Stanislaus State</i>
Department Subject Matter Competency Committee Member	<i>Fall 2019 – Spring 2021</i> <i>Stanislaus State</i>

Club Advising and Mentoring

Research Competition Juror Stanislaus State Student Research Competition	<i>Spring 2021</i> <i>Stanislaus State</i>
DZG Sorority Faculty Advisor Delta Zeta Gamma, Inc.	<i>Fall 2020 – Spring 2021</i> <i>Stanislaus State</i>
FMP Faculty Mentor Faculty Mentor Program	<i>Fall 2019 – current</i> <i>Stanislaus State</i>
SACNAS Club Co-Advisor Society for the Advancement of Chicanos/Hispanics and Native Americans in Science	<i>Fall 2019 – current</i> <i>Stanislaus State</i>
SIAM Club Advisor Society for Industrial and Applied Mathematics	<i>Fall 2018 – Spring 2021</i> <i>Stanislaus State</i>
LGBTQ+ Faculty Mentor Stan State LGBTQ+ Faculty Mentor Program	<i>Fall 2018 – current</i> <i>Stanislaus State</i>

Program, Seminar, and Conference Committees

Mathematics Steering Committee Member Pilot program offering scholarships and mentoring for CSU mathematics students to enter PhD programs at UCs.	<i>Spring 2022–current</i> <i>Cal Bridge</i>
Steering Committee Member Promoting careers in Business, Industry and Government to students and departments of the mathematical sciences.	<i>Spring 2022–current</i> <i>BIG Math Network</i>

**Northern California Undergraduate Mathematics Conference
Co-organizer**

Spring 2022

With Kenneth Hoover and David Martin.

Stanislaus State

Getting in: Graduate School, Internships, and Funding

Spring 2021

Workshop Celebrating Diversity Luncheon, with Padhu Seshaiyer.

2021 SIAM Annual Meeting

51st Bay Area Discrete Math Conference Co-organizer

Spring 2021

With graduate students from UC Berkeley.

Virtually hosted by
UC Berkeley

The EDGE Program Application Evaluator

Spring 2021

Enhancing Diversity in Graduate Education

Fall 2020 Pacific Math Alliance Webinar Co-organizer

Fall 2020

Organized and co-hosted 6 webinars for mathematics students in the Pacific region.

Virtual

50th Bay Area Discrete Math Conference Co-organizer

Fall 2020

With Anastasia Chavez.

Virtually hosted by
UC Davis

**Northern California Undergraduate Mathematics Conference
Co-organizer**

Spring 2020*

With Kenneth Hoover and David Martin.

Stanislaus State

*Cancelled due to COVID-19.

49th Bay Area Discrete Math Conference Lead Organizer

Fall 2019

Supported by the Stanislaus State College of Science, Institute for Mathematics and its Applications, and Elsevier.

Stanislaus State

MA in Mathematics Education Working Group

Fall 2019–current

With JungHa An, Michael Bice, Björg Jóhannsdóttir, and Lynda Wynn.

Stanislaus State

PMA Funding and Conference Committee Member

Fall 2018 – Fall 2020

Pacific Math Alliance

Graduate Student Ambassador

Fall 2015 – Spring 2018

Assist with graduate student recruitment and outreach initiatives.

University of Nebraska–Lincoln

Women and Mathematics at CMU Lead Organizer

Fall 2017 – Spring 2018

One-day event for undergraduate women in mathematics at Carnegie Mellon University supported by the IAS and CMU.

WAM@CMU

Conference Planning Committee Member

Fall 2015 – Spring 2017

Nebraska Conference for Undergraduate Women in Mathematics

NCUWM

Steering Committee Member

Fall 2016 – Spring 2018

Center for the Integration of Research, Teaching, and Learning

CIRTL@Nebraska

Application Evaluator

Spring 2016, Spring 2017

UCARE funds undergraduate research at UNL.

University of Nebraska–Lincoln

Graduate Student Advisory Board Representative

Fall 2013 – Spring 2015

Department of Mathematics

University of Nebraska–Lincoln

Conference Sessions and Workshops Organized

Advances by Scholars in the Pacific Math Alliance*

Spring 2020

With Andrea Arauza and Mario Banuelos.

AMS Western Sectional

*Cancelled due to COVID-19.

Meeting

Women in Science, Math is More than Just Bubbles

With Björg Jóhansdóttir, Brian Jue, and David Martin.

Spring 2019, 2020

Stanislaus State Annual
Science Day***Productive failure: What can we learn from our teaching mistakes?***

With Sarah Loeb, Emily Meehan, and Kimberly Ayers.

Fall 2018

Joint Mathematics Meetings

Early Career Women in Discrete Mathematics

With Jessalyn Bolkema.

Fall 2018

Joint Mathematics Meetings

NSF-GRFP Workshop Co-organizer

With Matt Cover and Koni Stone.

Fall 2018

Stan State CECE

Square One: The First Year of Graduate School

Webinar series with the Office of Graduate Studies.

Fall 2017

University of Nebraska–Lincoln

Mathematics and Statistics Breakout Session

UNL Campuswide TA Workshop

Summer 2016, 2017

University of Nebraska–Lincoln

Mathematics Graduate Student Seminar Co-organizer

With Nathan Poppelreiter.

Fall 2014 – Spring 2015

University of Nebraska–Lincoln

Journal Reviews***Discrete Applied Mathematics, Discrete Mathematics*****Teaching**

Operations Research (MATH 4430)

2 sections, 24 – 30 students.

Fall 2019, Fall 2022

Stanislaus State

Abstract Algebra II (MATH 4540)

1 sections, 3 students.

Fall 2022

Stanislaus State

Modern Geometry (MATH 3060)

1 sections, 28 students.

Spring 2022

Stanislaus State

Theory of Numbers (MATH 3600)

2 sections, 8, 15 students.

Fall 2021

Stanislaus State

Discrete Structures (MATH 2300)

2 sections, 29, 24 students.

Fall 2021

Stanislaus State

Senior Seminar in Mathematics (MATH 4960)

2 sections, 21, 18 students.

Fall 2020, Spring 2021

Stanislaus State

Finite Mathematics (MATH 1500)

1 section, 30 students.

Spring 2021

Stanislaus State

Calculus I Laboratory (MATH 1412)

1 section, 19 students.

Spring 2020

Stanislaus State

Mathematics Component Co-facilitator

STEM Discovery Academy, with Kenneth Hoover.

Summer 2019

Stanislaus State

Calculus II (MATH 1420)

2 sections, 29, 28 students.

Fall 2018, Spring 2019

Stanislaus State

Calculus I (MATH 1410)

7 sections, 28 – 35 students.

Fall 2018 – Spring 2021

Stanislaus State

Calculus I

1 section, 32 students.

Summer 2018

Carnegie Mellon University

Calculus II

1 section, 13 students.

Spring 2017

University of Nebraska–Lincoln

Math Modeling

1 section, 36 students.

Fall 2016

University of Nebraska–Lincoln

College Algebra

2 sections, 38 and 17 students respectively.

Fall 2014, Spring 2015

University of Nebraska–Lincoln