



SAINT LOUIS UNIVERSITY™

GRADUATE INFORMATION SESSION

Welcome

SESSION OVERVIEW

- + Welcome and introductions
- + Why earn a **SLU** graduate degree
- + Making your application
 - + ADMISSION PROCESS
 - + FINANCIAL AID
 - + LIFE IN ST. LOUIS, MISSOURI
 - + NEXT STEPS
- + Questions



WHY EARN A SLU GRADUATE DEGREE?

Academics at Saint Louis University are rigorous, ambitious, enriching and worthwhile. They are the heart of what we do.

- + NEARLY 100 POST-BACCALAUREATE PROGRAMS
- + M.A., M.S., AND PHD PROGRAMS
- + 30 DUAL DEGREES
- + 25 CERTIFICATES



COLLEGES + SCHOOLS

**College for Public Health
and Social Justice**

**College of Arts
and Sciences**

**College of Philosophy
and Letters**

**Doisy College of
Health Sciences**

**Parks College of
Engineering, Aviation
and Technology**

**Richard A. Chaifetz
School of Business**

School of Education

**Trudy Busch Valentine
School of Nursing**

**School for
Professional Studies**

ONLINE

School of Law

GRADUATE

School of Medicine

GRADUATE



OVERVIEW

Our graduate programs in mathematics provide students with the opportunity to learn and grow as scholars in an exciting environment of mathematical research.

The department offers programs leading to the Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) degrees.

SLU Mathematics & Statistics Department:

- Has a nearly 1:1 student to faculty ratio
- Provides a nurturing yet challenging environment
- Has a record of recruiting, graduating, and placing underrepresented students
- Prepares students for doctoral study or careers in teaching or industry

AND

- Both M.A. and Ph.D. students are considered for teaching assistantships



DEGREE SPECIFIC INFORMATION

M.A. in Mathematics

The Master's Degree requires:

- 10 courses in mathematics at the 4000-level or higher.
- At least 7 of those courses must be at the 5000-level or higher.
- All master's students must complete at least two sequences chosen from algebra (5110-5120), analysis (5210-52x0) and topology (5310-5320).

Master's students have the option of completing a Master's thesis with a faculty member which counts as 2 of the 10 classes.

- Students that do not wish to complete a thesis instead take an oral exam.

A student's experience is usually built around a number of yearlong sequences from various areas including algebra, analysis, and topology.

The department typically offers these year-long sequences in:

- Probability and Statistics (4000-level)
- Algebra (4000- & 5000-levels)
- Analysis (4000- & 5000-levels)
- Topology (5000-level)
- Differential Geometry (6000-level)

The department also routinely offers a variety of electives determined by student and faculty interest.

Full time students usually take about three courses a semester and complete the degree in two years.

DEGREE SPECIFIC INFORMATION

Ph.D. in Mathematics

Students who enter with a Bachelor's degree in mathematics:

- must complete 48 credit hours (16 courses) in mathematics at the 4000 level or higher, in addition to twelve hours of dissertation research.
- 9 out of 48 hours can be at the 4000-level
- Remaining 39 hours at the 5000 or 6000-level.

Students who enter with a Master's degree in mathematics:

- the requirement is 24 hours (8 courses) of coursework at the 5000 or 6000- level
- 12 hours of dissertation research.

All Ph.D. students must complete the sequences in algebra (5110-5120), analysis (5210-52x0), topology (5310-5320), and differential geometry (6000-level).

Full time students take about two or three courses each semester, including reading courses and dissertation research hours.

Written Examinations

Students must pass written examinations in three of the four areas covered by the graduate sequences: algebra, analysis, topology, and differential geometry.

Language Examination

Students must pass a written examination in one of these languages:

- French
- German
- Russian.

The examination consists of translating a mathematical article that is written in one of those languages. The use of a dictionary is allowed.

Dissertation

Requirement for the Ph.D. degree is writing and successfully defending a dissertation that presents the results of the original and independent mathematical research that the student has carried out over 12 registered credit hours, with the guidance of a faculty member.

FACULTY RESEARCH AREAS

Here are some of the primary research interest of our faculty

Tae-Hyuk (Ted) Ahn bioinformatics and high-performance computing
Anneke Bart geometric and low dimensional topology
Russell Blyth group theory
Erin Wolf Chambers computational geometry and topology
Bryan Clair spectral graph theory, geometric topology
Bradley Currey harmonic analysis and representation theory
Kimberly Druschel algebraic topology, orbifolds, cobordism
Daniel Freeman functional analysis
James Gill complex analysis, metric space analysis
Haijun Gong bioinformatics, statistics
Stacey Harris differential geometry, relativity
James Hebda Riemannian geometry, differential geometry
Benjamin Hutz number theory and dynamical systems

Brody Johnson applied harmonic analysis
John Kalliongis topology
David Letscher computational topology & 3-manifold algorithms
Greg Marks noncommutative ring theory
Michael May algebra, teaching with technology
Elodie Pozzi complex analysis, operator theory and its applications
Julianne Rainbolt group representation theory, fusion systems
Nirina Lovaso Randrianarivony functional analysis, metric geometry
Kevin Scannell natural language processing, hyperbolic geometry
Darrin Speegle applied harmonic analysis, time series
Ashish Srivastava noncommutative algebra, combinatorics

WHERE ARE THEY NOW?

M.A. in Mathematics

Sadita Salihovic 2020 (thesis)	High School Teacher Kirkwood, MO
Guanjie Huang 2019	Ph.D. student Baylor University
Julia Vranas 2019	Teacher at Lake Forest Academy
Elizabeth Scofidio 2017 (thesis)	Instructor of Statistics at Colorado State University
Joseph Eisner 2017 (thesis)	Ph.D. student University of Virginia
Sean Nemetz 2017 (thesis)	Ph.D. student Texas A&M University
Lauren Miller 2017	Ph.D. student Lindenwood University
Kevin Menos 2014	High School Teacher John Burroughs School
Daniel Bossaller 2013	Ph.D. student Ohio University
Shasta Shakya 2013 (thesis)	Ph.D. student in Finance Pennsylvania State University

Ph.D. in Mathematics

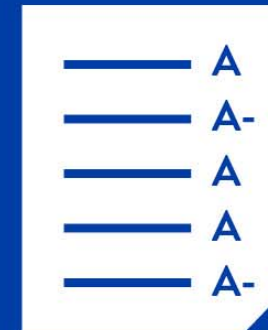
Brent Wessel 2020 (Currey)	Assistant Professor Harris-Stowe State University
Chirasree Chatterjee 2020 (Harris)	Data Scientist Pacific Data Integrators
Seth Arnold 2020 (Kalliongis)	Adjunct Instructor Saint Louis University
James Mixco 2018 (Srivastava)	Data Analyst U. S. Bank
C.J. Halverson 2019 (Gill)	Mathematics Department Chair Cardinal Ritter High School
Gerrit Smith 2017 (Khan)	Lecturer Iowa State
Sean Corrigan 2017 (Druschel)	Lecturer Texas State
Kyle Sykes 2016 (Chambers)	Data Scientist Care Otter
James Munden 2015 (Hebda)	Associate Professor STLCC – Forest Park
Ferroz Siddique 2015 (Srivastava)	Assistant Professor Wisconsin – Barron County
Kathering Paullin 2015 (Letscher)	Lecturer Kentucky
Mark Pedigo 2014 (Blyth)	Data Analyst Allscripts Healthcare Solutions
Tanya Lloyd-Hepburn 2013 (Harris)	Assistant Professor University of the Bahamas
Jesse Prince-Lubawy 2014 (Kalliongis)	Assistant Professor North Alabama
Vignon Oussa 2012 (Currey)	Assistant Professor Bridgewater State

MAKING YOUR SLU APPLICATION

AS PART OF THE APPLICATION PROCESS AT SLU, MOST PROGRAMS REQUIRE:

- + **Transcripts**>
- + **Letters of Recommendation**
- + **GRE or other applicable graduate entry exam**
*For most up-to-date GRE requirements,
contact the academic department.*
- + **Résumé and personal or professional goal statement**

*For international students, the TOEFL or IELTS is required.
Upon admission, the SLU writing exam (SLUWE) is also required.*



*For initial application review,
you may submit an unofficial
transcript. Once admitted,
you must provide an official
transcript prior to the end
of your first semester of
enrollment.*

Add @slu.edu to your safe email list.



FINANCIAL AID

STUDENT LOANS

- + Submit your Free Application for Federal Student Aid (FAFSA) – fafsa.ed.gov
- + 2022-23 FAFSA will be available Oct. 1
- + Obtain a PIN at pin.ed.gov
- + SLU's FAFSA school code is **002506**





GRADUATE LOAN OPTIONS

DIRECT UNSUBSIDIZED LOAN

- + \$20,500 (Fall/Spring)
- + 5.28% interest rate for 2021-22 (graduate or professional students)
- + 1.057% origination fee

DIRECT GRADUATE PLUS LOAN

- + Application required at studentaid.gov
- + 6.28% interest rate for 2021-22 (parents and graduate or professional students)
- + 4.228% origination fee



FINANCING YOUR DEGREE

The Mathematics and Statistics department typically offers between 3 to 5 teaching assistantships each year.

Students who are awarded a teaching assistantship will receive:

- A nine-month stipend (\$19,000 for the academic year 2019-2020)
- Full tuition remission
- Medical benefits

Students must maintain a 3.0 GPA to renew their assistantship from one year to the next.

- M.A. students are eligible for two years of funding
- Ph.D. students are eligible for five years of funding (including time in the M.A. program).

The department can nominate outstanding candidates for the Diversity Fellowships and Presidential Fellowships.

SCHOLARSHIPS

- + Donald G. Brennan Scholarship Fund
- + Cathy Golden Scholarship Award
- + Edward L. and Rhelda Marbry Morgan, Ph.D.
Endowed Book Fund Award

ONLINE SCHOLARSHIP RESOURCES:

FinAid on the Web: finaid.org

College Board: collegeboard.com

FastWeb: fastweb.com

Scholarship Resource Network Express: srnexpress.com

GoCollege: The Collegiate Webservice: gocollege.com

Saint Louis University: [slu.edu/academics/graduate/
graduate-scholarships-fellowships-assistantships.php](http://slu.edu/academics/graduate/graduate-scholarships-fellowships-assistantships.php)



FINANCIAL AID ANSWERS

Go to SLU's Online Financial Education Center and carefully review the information found in the Graduate/Professional dropdown. It includes information on topics such as:

- + Repayment
- + Consolidation
- + Loan forgiveness
- + Money management
- + Interest and tax information



GRADUATE LOAN OPTIONS

NEED TO SPEAK WITH A SLU EXPERT?

LAST NAME BEGINS WITH	COUNSELOR	PHONE
A - C	Noor Ahmed	314-977-4203
D - I	Alicia Brown	314-977-2352
J - M	Alek Jarzen	314-977-2351
N - S	Logan Vinson	314-977-4208
T - Z	Fallon Potter	314-977-2839



PRO-TIP TIMELINE

SEPTEMBER

- + Take the **GRE** or **GMAT**, if you have not already.
- + Ask faculty members for letters of recommendation.
- + Write or revise your personal statement.
- + Start researching financial assistance.

OCTOBER

- + Financial Aid: Fill out the **Free Application for Federal Student Aid (FAFSA)**.
- + Check app deadlines as well as assistantship deadlines.
- + Experience SLU – find an event or tour option that best fits you. For up-to-date options, visit slu.edu/visit.

NOVEMBER-DECEMBER

- + **Make your application** (check the application deadline!).
- + **Check app status** through the application portal.
- + Continue to check into financial aid options.

MARCH-APRIL

- + Get accepted to a graduate program at SLU.
- + Accept your admission by logging into your application and confirm your enrollment.





DISCOVER ST. LOUIS

NO. 1

**CITY TO LAUNCH
YOUR CAREER**

LinkedIn

TOP 10

MOST LIVABLE U.S. CITIES

Curbed

EIGHT

**FORTUNE 500
COMPANIES**

ON CAMPUS AND BEYOND

SLU's campus is the perfect home base. The Midtown Arts District and Cortex Innovation Community neighbor the University, and \$8 billion of development projects underway in and around Midtown — including Prospect Yards, City Foundry STL and the Armory District — will bring a food hall, movie theater, a greenway trail and more within minutes of campus.



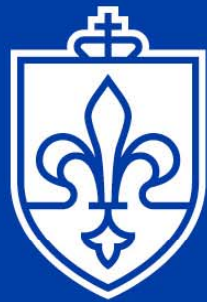
GETTING AROUND



SLU'S CAMPUS HAS EASY
ACCESS TO ST. LOUIS'
METROLINK LIGHTRAIL
SYSTEM, WHICH CONNECTS
YOU TO DOWNTOWN, THE
AIRPORT AND MORE.

- + Lambert International Airport (STL)
- + Airport shuttles
- + Metrolink (light rail system)
- + MetroBus
- + Ride Sharing options
- + Billiken Shuttle





SAINT LOUIS
UNIVERSITY™

— EST. 1818 —

Graduate Studies in Mathematics and Statistics

Department Chair: Bryan Clair

Email: Bryan.clair@slu.edu

Director of Graduate Studies: Jim Gill

Email: Jim.Gill@slu.edu

<http://mathstat.slu.edu>

General Graduate Admission Questions:

Email: Graduate@slu.edu