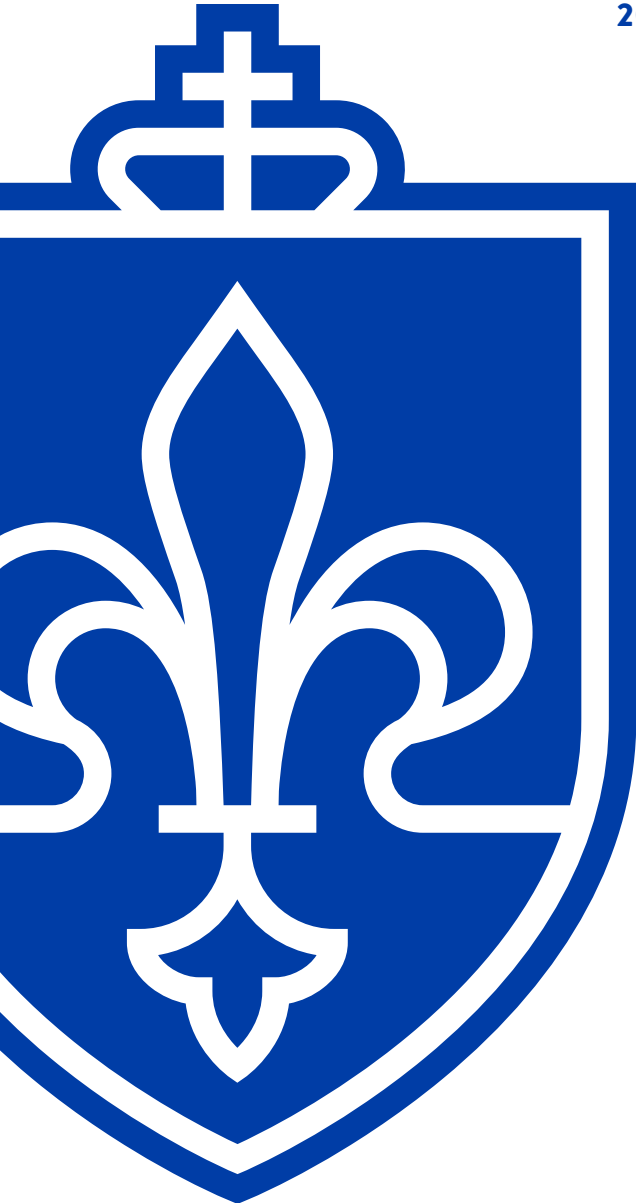


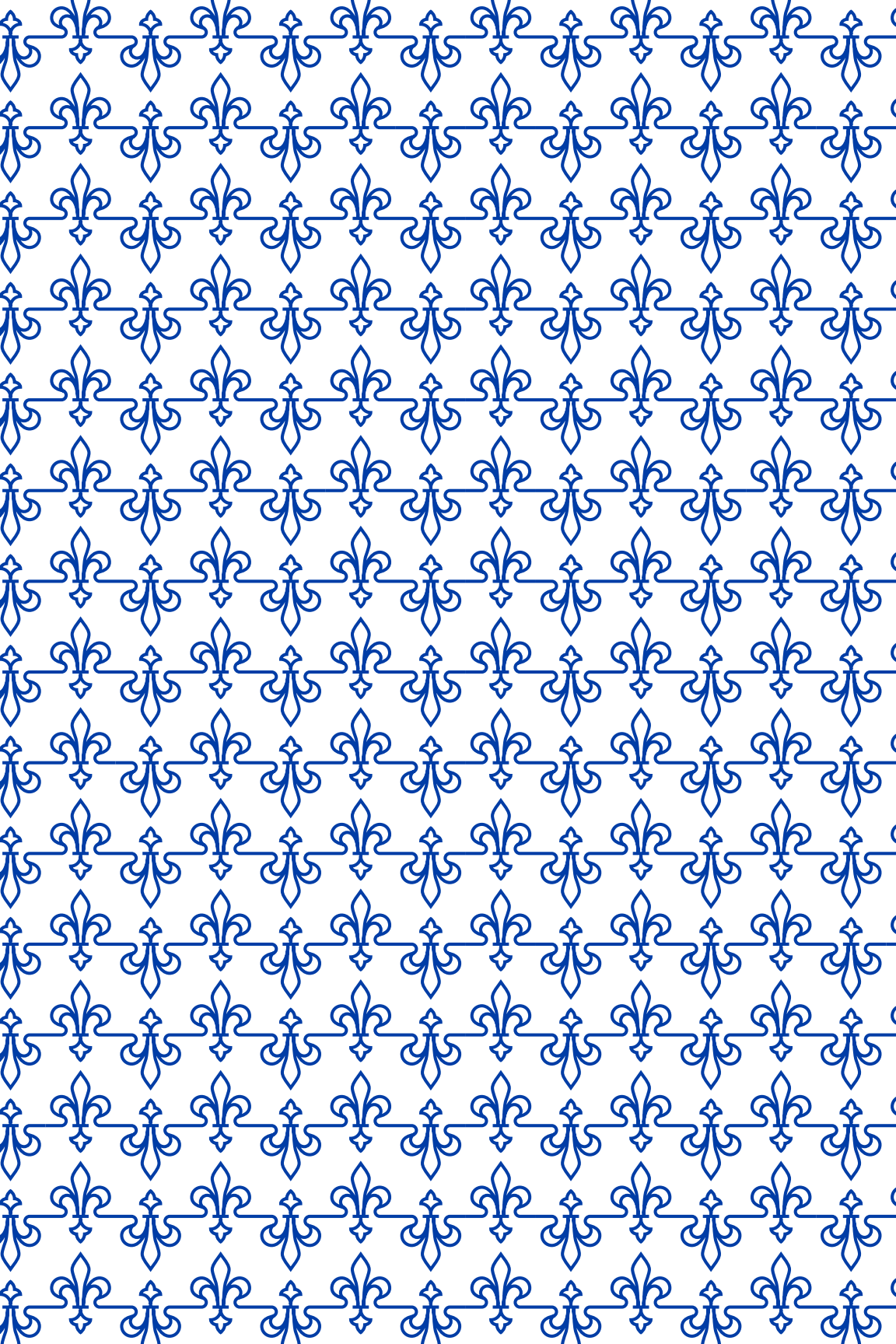
SLU

2024 PRECOMMENCEMENT



**SCHOOL OF SCIENCE
AND ENGINEERING**

Friday, May 17
Chaifetz Arena
St. Louis, Missouri



ACADEMIC ATTIRE

The colorful attire worn by graduates, faculty, trustees and officers of the University has historic roots in the distant medieval past. Dressed in cap and gown, the graduates and their professors are part of a long tradition that dates back to Paris and Bologna, Italy, to Oxford and Cambridge, England, in the days of their Catholic glory.

The exact origins of several parts of the academic garb are a bit of a mystery. Because medieval students enjoyed the status of cleric during their university years, one might guess that their attire found its inspiration in the clerical dress of medieval times. The gown seems to be an adaptation of the robe of friar or priest; the hood, of the monk's or friar's cowl; and the mortarboard cap of today recalls the skullcap of days when tonsured heads needed protection against the drafts of medieval classrooms.

Academic attire began to appear on U.S. campuses in the late 1890s. Since that time, its use has become universal for solemn university functions, and its pattern is highly uniform.

THE GOWNS

The gowns are three in number and styling. That of the bachelor is a yoked, closed-front garment with long pointed sleeves; that of the master has sleeves long and closed but slit just above the elbow to allow the forearms to protrude; the gown of the doctor has full, bell-shaped sleeves. Only the doctor's gown is trimmed — with velvet panels down the front and three velvet bars on each sleeve.

THE HOOD

The hood at first seems to have been worn over the head and attached to the gown. When the skullcap was introduced, the hood was retained but detached and worn much as it is today. Each degree (bachelor's, master's, doctoral) has its special hood, which varies in length and, for the doctor, also in pattern. The color or colors lining the hood are those of the college or university that granted the wearer's degree. For example, Saint Louis University is known by blue chevron on a field of white. The colored velvet binding or edging of the hood, in different widths for bachelor, master and doctor, is determined by the field of study.

THE CAP

The cap, or mortarboard, has become the universally accepted style for colleges and universities in the United States. Many European institutions still retain distinctive forms of academic headdress.

THE TASSEL

The tassel is perhaps the most iconic souvenir of academic attire. The doctor, following graduation, has the right to wear a gold tassel on the mortarboard; black, however, is perfectly proper and perhaps more common. A tolerated practice of varying the color of the tassel on the others has gained acceptance: arts, white; science, gold-yellow; philosophy, dark blue; education, light blue; business, drab; nursing, apricot; technology and engineering, orange; hospital administration, salmon; public administration, peacock blue; social work, citron; law, purple; medicine, green; theology, scarlet; and allied health professions, mint green.

ORDER OF EVENTS

WELCOME

Gregory Triplett, Jr., Ph.D.

Oliver L. Parks Dean

PRESENTATION OF COLORS

Parks Guard Rifle Drill Team

NATIONAL ANTHEM

THE INVOCATION

John W. Peck, S.J., Ph.D.

DEAN'S REMARKS

Gregory Triplett, Jr., Ph.D.

Oliver L. Parks Dean

Presentation of the Graduates

Awards

GRADUATING STUDENT AWARDS

THE BENEDICTION

John W. Peck, S.J., Ph.D.

RECESSIONAL

THE GRADUATES

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

OLIVER L. PARKS
DEPARTMENT OF
AVIATION SCIENCE

AERONAUTICS

Khaled Farouq Abusaid
Saint Louis, Missouri
Flight Science

**Christopher Olawale
Aderupatan**
Chicago, Illinois
Aviation Management

Abdullah Ali M. Alasmri
Riyadh, Saudi Arabia
Flight Science
magna cum laude

Fares Awad Alenizi
Buraydah, Saudi Arabia
Aviation Management

Mohammed Saleem Alfawaz
Jeddah, Saudi Arabia
Flight Science
magna cum laude

Savannah J. Baker
Hallettsville, Texas
Flight Science
University Honors Program
cum laude

David Joseph Barajas
San Francisco, California
Flight Science
cum laude

Ashleigh Karin Bick Dawes
Saint Charles, Missouri
Aviation Management
summa cum laude

Addison Nicole Brazile
Saint Louis, Missouri
Flight Science

Arianna Brown
Chicago, Illinois
Aviation Management
cum laude

Adam T. Burke
Shawnee, Kansas
Flight Science
magna cum laude

Nicholas Andrew Carey
Glencoe, Illinois
Flight Science

Zachary John Carlson
Highland, Illinois
Flight Science

Chia-Hsing Chu
Taoyuan, Taiwan
Flight Science
cum laude

Sebastian Diego Conklin
Allen, Texas
Flight Science
cum laude

Mary Grace Cortesi
Chicago, Illinois
Flight Science
magna cum laude

Jonathan R. Faust
O'Fallon, Illinois
Flight Science
cum laude

Yu Stephanie Feng
Zhuhai, Guangdong, China
Flight Science

Cody Robert Going
Florissant, Missouri
Flight Science

Jack Stanley Haduch
Winnetka, Illinois
Flight Science

Noah James Hanson
Glen Ellyn, Illinois
Aviation Management
summa cum laude

Kellen Leighton Johnson
Saint Charles, Missouri
Flight Science

Michael Foster Jonell
Centennial, Colorado
Flight Science

Alexander Xavier Jones
Fulton, Missouri
Flight Science

Alma Karabas
Columbia, Illinois
Flight Science
cum laude

Samuel Cooper Lehmann
Dunwoody, Georgia
Flight Science
magna cum laude

Matthew William Liguori
Granby, Connecticut
Aviation Management
magna cum laude

Stephen Patrick Lindberg
Kildeer, Illinois
Aviation Management

Ahmad Ali Lingga
Jeddah, Saudi Arabia
Aviation Management
cum laude

Sisheng Merlin Ma
Lanzhou, China
Flight Science

THE GRADUATES

Mallory Nicole Machala
Hawthorn Woods, Illinois
Aviation Management

Mince Mbisikmbo
Nabire, Indonesia
Aviation Management

Jamison Matthew McCarty
Staunton, Virginia
Aviation Management
magna cum laude

Chase Russell Meyer
Affton, Missouri
Flight Science
magna cum laude

Michael Paul Morell
Hingham, Massachusetts
Flight Science
cum laude

Darren Christopher Mushkin
Tempe, Arizona
Flight Science
magna cum laude

Ben James Niederer
Saint Louis, Missouri
Flight Science
magna cum laude

Michael O'Donnell
Springfield, Virginia
Flight Science

Jongchan Park
Seoul, South Korea
Flight Science
cum laude

Hudson Patrick Pettit
Fox Point, Wisconsin
Flight Science
summa cum laude

Curtis James Scott
Chicago, Illinois
Flight Science

Nathaniel Michael Seliner
Saint Louis, Missouri
Flight Science

Adam Jacob Shelton
Pawnee, Illinois
Flight Science
magna cum laude

Ryan Andrew Sherman
Cincinnati, Ohio
Aviation Management
cum laude

Minsu Song
Gyeonggi-Do, South Korea
Aviation Management

Alexander Philipp Speer
Gurnee, Illinois
Flight Science
summa cum laude

Rebecca E. Treis
Saint Louis, Missouri
Flight Science
summa cum laude

Sebastian Valenzuela
Chicago, Illinois
Flight Science
magna cum laude

Marisa Alayna Warren
O'Fallon, Missouri
Flight Science

William Davis Weaver
Arnold, Missouri
Flight Science

Bojian Yu
Beijing, China
Aviation Management
magna cum laude

DEPARTMENT OF AEROSPACE AND MECHANICAL ENGINEERING

AEROSPACE ENGINEERING

Ketura A. Bates
Mobile, Alabama

Chems Eddine Boudiaf
Madrid, Spain

Spencer K. Cochran
Springfield, Illinois

Sophia Lien Collins
Palmyra, Nebraska
magna cum laude

Colin Michael Cummins
Roselle, Illinois

Timothy Donald Drake
Arlington Heights, Illinois

Connor Douglas Fadden
Portland, Oregon
University Honors Program
summa cum laude
Additional Major: Mathematics

Luke Matthew Giunta
Saint Louis, Missouri

Antonio David Hamilton
Bloomington, Indiana
magna cum laude

Stephen D. Hyndman
Prospect Heights, Illinois

Christopher D. Imbriano
Mattituck, New York

Robert E. Immekus IV
Valles Mines, Missouri
cum laude

Pablo Izquierdo Ortiz
San Sebastián de los Reyes, Spain

Eric Anthony James
Elmont, New York

Amanda Marie Kohne
Dittmer, Missouri

Isabella Louise Korzilius
Saint Paul, Minnesota
cum laude

James Patrick Kramer
Crestwood, Kentucky

Juanita Latorre Jaramillo
Medellin, Columbia
summa cum laude

**Eduardo Lobo Infante Da
Camara Teixeira**
Curitiba, Paraná, Brazil
magna cum laude

Tavin Paul Matiszik
Clayton, Missouri

Endrit Mehmetaj
Saint Louis, Missouri
cum laude

Matthew D. Muetzel
Mahtomedi, Minnesota
summa cum laude
Additional Major: Mathematics

Joshua Taylor Nguyen
Little Rock, Arkansas
University Honors Program
summa cum laude

**Michael Joseph Y. Nguyen
Truong**
Saint Louis, Missouri
Additional Major: Mechanical
Engineering

Mary Rose Otten
Menomonee Falls, Wisconsin

Blake Fisher Peftoulidis
Humboldt, Tennessee

Jerome P. Quebbeman
Oak Lawn, Illinois

Anthony Martin Rizzo
O'Fallon, Illinois
magna cum laude

Jacob Peter Stukas
Chicago, Illinois

Carlos J. Torelli
Champaign, Illinois

Xavier Torres Arpi Pous
Mexico City, Mexico
magna cum laude

Peter J. Trainor
Superior, Colorado

MECHANICAL ENGINEERING

Lesly Karina Aguilar
San Jose, California

**Oluwatobi Temitope
Georgette Akangbe**
Memphis, Tennessee

Armando Roman Alvarado
Chicago, Illinois

Ryan Allan Bjerke
Saint Louis, Missouri

Sarah Joyce Brzezinski
Shorewood, Illinois
cum laude

Charles Edward Carroll
Madison, Wisconsin

Michael E. Davies
Saint Louis, Missouri

Michael Patrick Dompke
Park Ridge, Illinois
magna cum laude

Atticus Michael Edge
Saint Charles, Missouri

Katrina Marie Esswein
Saint Louis, Missouri
summa cum laude
Additional Major: Mathematics

Regan Ford
Decatur, Illinois

Robert Drake Guetterman
Columbia, Illinois

Benjamin Breig Haukap
Lees Summit, Missouri
cum laude

Maksim Juric
Saint Louis, Missouri
magna cum laude

Barrett B. Kurmann
Effingham, Illinois

Jake David Little
Tampa, Florida
summa cum laude

Sophie Elizabeth Maloney
Rocky River, Ohio

Alfonso Dejesus Morales
Oconomowoc, Wisconsin

Shayne Tyler Murphy
Kansas City, Missouri

Justin Ndacaisaba
Saint Louis, Missouri
cum laude

Shiyan Nejat
Saint Louis, Missouri

Logan John Radick
Wayzata, Minnesota
cum laude

Gavin McAllister Ryan
Modesto, California
cum laude

THE GRADUATES

William James Ryan
Saint Albans, Missouri
summa cum laude

Andrew Kevin Stack
Glenview, Illinois

DEPARTMENT OF BIOMEDICAL ENGINEERING

BIOMEDICAL ENGINEERING

Grace Anne Almgren
Bettendorf, Iowa
University Honors Program
summa cum laude

Julia Anne Brockhouse
Omaha, Nebraska
summa cum laude

Robert L. Bucks
Troy, Illinois

Megan Kelly Chermack
Scottsdale, Arizona
magna cum laude

Ether Dharmesh
Chesterfield, Missouri
University Honors Program
summa cum laude

Ryan A. Hilty
Mokena, Illinois
summa cum laude

Patrick David Hinkle
Phoenix, Arizona
summa cum laude

Abigail M. Kieffer
Pittsburgh, Pennsylvania
cum laude

Talon Scott Krieger
Placerville, California

Dimitri Yanni Loli
Saint Louis, Missouri

Owen P. Miller
Barnhart, Missouri
magna cum laude

Ryan J. Mueller
Arlington Heights, Illinois
magna cum laude

Nina Oforji
Chicago, Illinois

Gerard Paul Echano Pena
Mount Prospect, Illinois
cum laude

Natalie M. Phelps
Saint Louis, Missouri
magna cum laude

Jessica L. Robinson
High Ridge, Missouri
summa cum laude

Angela Marie Romanelli
Mount Prospect, Illinois
summa cum laude

Saloni Salil Shringarpure
Saint Louis, Missouri
summa cum laude

Samuel J. Silva
Kansas City, Missouri
summa cum laude

Rose Viguerie
Belleville, Illinois

Caitlin Elizabeth Welby
O'Fallon, Missouri
summa cum laude

Katie Woehlert
Nashville, Tennessee
cum laude

DEPARTMENT OF CHEMISTRY

BIOCHEMISTRY

Esha D. Dani
Hillside, Illinois
University Honors Program
summa cum laude

Helen Anne-Marie Elser
Little Rock, Arkansas
University Honors Program
cum laude
Additional Major: Theological
Studies

Emily Elizabeth Falk
Chicago, Illinois

Olivia Rochelle Farris
Independence, Missouri

Caitlin Elizabeth Hamill
Saint Louis, Missouri
magna cum laude

William He
Saint Peters, Missouri

Kyan Dang Ho
Eureka, Missouri
cum laude

Annie Eunso Jung
Livermore, California
University Honors Program
magna cum laude

Nicolas André Daniel Keller
Springfield, Missouri
University Honors Program
magna cum laude

Aidan Elias Khoury
Peoria, Illinois
cum laude

Sydney Steele Lahm
Saint Louis, Missouri
summa cum laude

Travis LaPonsie

Hillsboro, Missouri
Additional Major: Psychology

Leah Y. Liu

Bakersfield, California

Robert Zachary Mendoza

Elmhurst, Illinois
cum laude

Mark William Stacy

Clarendon Hills, Illinois

Chau Le Hoang Ta

Sóc Trăng, Vietnam
cum laude

Anastasiia Vinogradskaja

Ekaterinburg, Russia
magna cum laude

**CHEMICAL BIOLOGY AND
PHARMACOLOGY****Cecilia Grace Fitz**

Boise, Idaho

Makaila E. Leask

Farmington, Missouri
cum laude

Andrew Casey Pender-Schraut

Saint Louis, Missouri
cum laude

Julia W. Stone

Elmhurst, Illinois
cum laude

CHEMISTRY**Kevin Burke**

Florissant, Missouri

Caroline G. Christ

Terre Haute, Indiana
University Honors Program
summa cum laude

Maxwell Gao

Chesterfield, Missouri
summa cum laude
Additional Major: Music
Performance

Lane Christopher Hartman

Saint Louis, Missouri
magna cum laude
Additional Major: Mathematics

Jack M. Huegerich

Saint Louis, Missouri
magna cum laude

**Benjamin Theodore
Unnerstall**

Chesterfield, Missouri
cum laude

Joseph Wayne Wise

Seabrook, Texas

**DEPARTMENT OF
CIVIL, ELECTRICAL
AND COMPUTER
ENGINEERING****CIVIL ENGINEERING****Jack Alan Chapin**

Jenks, Oklahoma
summa cum laude

Jacob Phillip Cullotta

Mount Prospect, Illinois

Mikayla Dai Elkins

Elmhurst, Illinois

Laura Ashley Gray

Clarksville, Missouri
magna cum laude

Brooke Nunley Kenworthy

Memphis, Tennessee
University Honors Program

Madolyn Kieffer

Cheswick, Pennsylvania

Steven Lum

Houston, Texas

Mariandrea Miranda Ramirez

Miami, Florida

Caroline Benson Sear

Libertyville, Illinois
University Honors Program
summa cum laude

Olivia Ann Sotelo

Edwardsville, Illinois
magna cum laude

John Tapy

Chesterfield, Missouri
magna cum laude

Nicholas John Tomecek

Lisle, Illinois
cum laude

Owen Jay Uyemura

Manchester, Missouri
magna cum laude

Morgan Yang Voissem

Appleton, Wisconsin

Harrison Tallman Wooters

Shelbyville, Illinois
magna cum laude

COMPUTER ENGINEERING**Seoyoung Lexxy Ahn**

Chuncheon, South Korea
summa cum laude

Robert P. McManus

Ballwin, Missouri

John E. Melulis

Clayton, Missouri

THE GRADUATES

Caroline Blair Murphy
Saint Louis, Missouri
summa cum laude

Brandon Thomas Terselic
Ingleside, Illinois

ELECTRICAL ENGINEERING

James E. Baker
Loomis, California
Bioelectronics
summa cum laude

Abigail Ann Bremseth
Plymouth, Minnesota
magna cum laude

Amanda Deja
Chicago, Illinois

Michael McCormick
Alexandria, Virginia

Joshua Tambari Nuka
Rolla, Missouri
summa cum laude

Raina Elizabeth Panicker
Ballwin, Missouri
cum laude

David Mark Ruetten
Sycamore, Illinois

Benjamin Joseph Schneider
Algonquin, Illinois
summa cum laude

Benjamin Michael Sloan
Evansville, Indiana

Rebekah Clare Weimholt
Minneapolis, Minnesota
summa cum laude

Noah Alan Whetstone
Phoenix, Arizona

DEPARTMENT OF COMPUTER SCIENCE

COMPUTER SCIENCE

Zohaib Ahmed
Wildwood, Missouri
magna cum laude

Sophia Estifanos Bahru
Saint Charles, Missouri

Hebron Hunegnaw Bekele
Sioux Falls, South Dakota

Andrew Kent Berry
Fenton, Missouri

Kameron Armani Bustos
Orland Hills, Illinois

Ryan Christopher Carmody
Canton, Georgia

Andrew Chen
Chesterfield, Missouri
summa cum laude

Joshua N. Cohen
O'Fallon, Missouri

Alexander Delgado
Granite City, Illinois

Massimo Matthew Evelt
Mount Zion, Illinois

Joseph R. Folen
Carlyle, Illinois
cum laude

Ethan Christopher Gray
Pasadena, California
cum laude
Additional Major: Data Science

Emily Rose Henken
Webster Groves, Missouri
magna cum laude

Travis Milton Herrick
Washington, Missouri

Joshua Hogan
Granite City, Illinois

Thomas Irvine
Goshen, Kentucky

Andrew James Jelliss
Saint Louis, Missouri

Anna Catherine Kidwell
Jasper, Indiana
summa cum laude

Grace J. Lin
Ballwin, Missouri
magna cum laude

Kyla McMakin
Virginia Beach, Virginia

Miles Jeffrey Monday
Wauwatosa, Wisconsin

Andrew Rory Obermiller
O'Fallon, Illinois

Tony C. Obradovic
Saint Louis, Missouri
magna cum laude

Jack R. Pifer
Edwardsville, Illinois

Stuart M. Ray
Valley Park, Missouri
cum laude

Evan W. Richmond
Kirkwood, Missouri
summa cum laude
Additional Majors:
Data Science and Mathematics

Izak Roberto Robles
Saint Louis, Missouri
cum laude

Louis Blake Rolwes

Caledonia, Missouri
summa cum laude

Szymon Piotr Rostkowski

Mundelein, Illinois

Carlos Andres Salinas

Chesterfield, Missouri

Adrian Delmar Swindle

Blue Springs, Missouri
cum laude

Owen August Thomasson

Saint Louis, Missouri

Tu Nguyen Nhat Tran

Saint Louis, Missouri
magna cum laude

Tianhao Wang

Beijing, China

John Ivanov Yanev

Saint Louis, Missouri
magna cum laude

Stanley Yang

O'Fallon, Missouri
cum laude

Kaleb JingSheng Yu

Fenton, Missouri
cum laude
Additional Major: Mathematics

DEPARTMENT OF
EARTH AND
ATMOSPHERIC
SCIENCES

ENVIRONMENTAL SCIENCE

Christopher Evan Brzozowski

Menomonee Falls, Wisconsin
Biology
magna cum laude

Jacob R. Burroughs

Glen Carbon, Illinois
Biology

Paige Dubs

O'Fallon, Illinois

Isaac Evans

Godfrey, Illinois
Biology

Jennifer Anne Gordus

Huntley, Illinois
Biology
cum laude

Abigail Elizabeth Hess

Coppell, Texas
Biology

Nora Grace Stark

Saint Louis, Missouri

ENVIRONMENTAL STUDIES

Tyler Ray Boley

Washington, Illinois
Natural Sciences
Additional Major: Anthropology

Malaya Dawn Funk

Belleville, Illinois
Natural Sciences
cum laude

Glore Nanria Ruiz Perez

Farmington, Missouri

Payton Jolie Schield

Naperville, Illinois
cum laude

Paige Smith

Cleves, Ohio
cum laude
Additional Major: Political
Science

GEOLOGY

Hannah L. Hitchcock

Nashville, Tennessee
University Honors Program
magna cum laude

Hussain Taqi

Edwardsville, Illinois

METEOROLOGY

Victor William Geiser

Belgium, Wisconsin
magna cum laude

Jack Marshall Rotter

Lees Summit, Missouri
cum laude

Eleanor Smith

Kirkwood, Missouri

DEPARTMENT OF
PHYSICS

ENGINEERING PHYSICS

Camilyn Rae Newbanks

Oreana, Illinois
Aerospace Engineering

PHYSICS

Anne Louise Lashbrook

Little Rock, Arkansas
University Honors Program
summa cum laude
Additional Major: Mathematics

Grant Alexander Osmon

Chesterfield, Missouri
Additional Major: Mathematics

THE GRADUATES

OLIVER L. PARKS
DEPARTMENT OF
AVIATION SCIENCE

MASTER OF SCIENCE

AVIATION

Ruth Carolina Calix
Chicago, Illinois

John Orr
Lonoke, Arkansas

DOCTOR OF PHILOSOPHY

AVIATION

Nithil Kumar Bollock
Saint Louis, Missouri

Steven Ryan Brinly
Forest, Virginia

Nurettin Dinler
Ankara, Turkey
Dissertation Title: *Analyzing
the Impact of Airport Regulatory
Reform on the Financial
Performance of Private Airports
and Economic Dynamics in
Australia*

Richard A. Hellings II
Longview, Texas
Dissertation Title: *The Effect
of a Safety Incentive Program on
Perceptions of Safety Culture*

DEPARTMENT OF
AEROSPACE AND
MECHANICAL
ENGINEERING

MASTER OF SCIENCE

ENGINEERING WITH
CONCENTRATION IN AEROSPACE
AND MECHANICAL ENGINEERING

Diana Baimurzayeva
Almaty, Kazakhstan

Long-Tai Chen
New Taipei City, Taiwan

Alexander Ethan Christian
Saint Louis, Missouri

Justin K. Fantroy
Lake Saint Louis, Missouri

Colton Doherty
Lake Saint Louis, Missouri
Thesis Title: *Design and
Evaluation of Additive
Manufactured Enclosures for
League Standard Pucks in Blind
Ice Hockey*

Jay Hahariya
India

Wesley Michael Hawkins
West Frankfort, Illinois

Travis Jude Jude
India

**Venkata Nagendar Reddy
Lakkireddy**
Medchal, India

Max Connery Matura
Burr Ridge, Illinois
Thesis Title: *Direct Femtosecond
Laser Peening of Metallic
Materials*

Sai Kishore Neppali
Prakasam, India

Niraj Rameshbhai Panchal
Kheda, India

Hammad Pervaiz
Lahmore, Pakistan

Sally Jee Hyun Shim
Cerritos, California
Thesis Title: *Effect of Coolant
Flow Rate in Immersion
Cooling for Lithium-ion Battery
Degradation*

Maohu Wang
Pu'er, China

DOCTOR OF PHILOSOPHY

ENGINEERING WITH
CONCENTRATION IN AEROSPACE
AND MECHANICAL ENGINEERING

Xingbang Chen
Guangzhou, China
Dissertation Title:
*Quantification of Blood Trauma
in High Shear Flow*

Maya Fisher Dunlap
Saint Louis, Missouri
Dissertation Title: *Synthesizing
an Anthropomorphic Robotic Arm
and a Wearable Haptic Device
to Improve User Experience for
Telepresence Robot Operators*

Scottie Lambert
Federal Way, Washington
Dissertation Title: *Smart
Haptic Tangibles for Kinesthetic
Exploration of Mathematics
Topics in STEM Learning*

Bryan Andrew MacGavin

Wildwood, Missouri

Dissertation Title: *Wearable Haptic Devices and Their Roles in Facilitating Communication and Increasing Inclusive Education*

DEPARTMENT OF
BIOMEDICAL
ENGINEERING

MASTER OF SCIENCE

ENGINEERING WITH
CONCENTRATION IN
BIOMEDICAL ENGINEERING

Tabitha Anne Cacheris

Chesterfield, Missouri

Gabriella Lydia Coronado

Colorado Springs, Colorado

Allison Faber

Mount Prospect, Illinois

Thesis Title: *Development of an in vitro polyethylene glycol dual-stiffness hydrogel model to observe glioblastoma spheroid motility at stiffness interfaces.*

Austin Mathias Krohn

Dallas, Texas

Thesis Title: *Cellular Responses to Polyethylene Glycol (PEG) Hydrogels and Cryogels Functionalized with Charged Peptide Ligands*

Ahmed S Mahmoud

Saint Louis, Missouri

Parul Nigam

Edwardsville, Illinois

Thesis Title: *A Novel Microfluidics Inspired Device for Fabricating Mono-Dispersed Polyethylene Glycol Microspheres*

Kayla Sammons-Vonachen

Saint Charles, Missouri

Connor P. E. Tobo

Highlands Ranch, Colorado

Thesis Title: *Optimizing localized delivery of biological cargo via gelatin nanoparticles for tissue inquiry*

Olivia Grace Widdoes

Sapulpa, Oklahoma

Grace A Yost

Alton, Illinois

Thesis Title: *Modeling the Choroid Structure Using an Electrospun Bruch's Membrane Replicate and a Flow Device*

DOCTOR OF PHILOSOPHY

ENGINEERING WITH
CONCENTRATION IN
BIOMEDICAL ENGINEERING

Prathamesh Vishnudas Bhagvath

Mumbai, India

Qi Chen

Nantong, China

Eya Ferchichi

Bizerte, Tunisia

Dissertation Title: *Gelatin methacrylate composite polymers as scaffolds for cell mechanosensing applications*

David Leroy Johnson

Streamwood, Illinois

Dissertation Title: *Synergistic Strategies for Enhancing Muscle Recovery: Incorporating Bioscaffolds, Physical Rehabilitation, and Stem Cells*

DEPARTMENT OF
CHEMISTRY

MASTER OF ARTS

CHEMISTRY

Lydia Deborah Deterding

Saint Louis, Missouri

MASTER OF SCIENCE

CHEMICAL BIOLOGY

Haya Jamal Alkhateeb

Manchester, Missouri

Thesis Title:

Design and Synthesize Efflux Pump Inhibitors to Potentiate the Antibacterial Activity Against Multi Drug-Resistant Acinetobacter baumannii.

Emma Marie Inmon

Wentzville, Missouri

Thesis Title: *Investigation of Recombinant Hepatitis B Virus Polymerase Proteins and Identification of Potential Polymerase Inhibitors*

Elise Danae Stuertz

Saint Charles, Missouri

Thesis Title: *Synthesis of SAE-14 Derivatives: A Small Molecule Antagonist for G-Protein Coupled Receptor 183 (GPR183) for the Treatment of Neuropathic Pain*

CHEMISTRY

MacKenzie Hertel

Cedar Hill, Missouri

Thesis Title: *The effect of sodium/magnesium on RNA stability and identification and characterization of RNA triloops*

THE GRADUATES

Mariya Iliyanova Novakova

Saint Louis, Missouri

Thesis Title: *Synthesis and glycosidation of building blocks of D-altrosamine*

DOCTOR OF PHILOSOPHY

CHEMISTRY

Julius Agongo

Bolgatanga, Ghana

Dissertation Title: *Compound Discovery and Small Cell Population Metabolomics*

Peter Frank Maness

Saint Louis, Missouri

Dissertation Title: *Mechanistic Investigation of O(3P)-Mediated Oxidations of Alkenes and Lipids Coupled with Computational Modeling of Sulfoximine and Sulfondiimine Photochemistry*

Mahmoud Elhousseiny

Mostafa

Alexandria, Egypt

Dissertation Title: *Isobaric tagging and nanospray for quantitative metabolomic and lipidomic*

Desmond Boateng Ofosu

Accra, Ghana

Dissertation Title: *Reversible Covalent binding of thiolated molecules onto Thioester-Functionalized Surfaces and kinetic studies using qNMR*

Ali Parvez

Lahore, Pakistan

Dissertation Title: *Aptamers for diabetic wound healing*

John Anum Tetteh

Accra, Ghana

Dissertation Title: *Electrical Coupling Induced Synchronization Patterns in Microelectrochemical Devices*

Dhanushan Rucheeva

Wijayaratna

Colombo, Sri Lanka

Dissertation Title: *Engineering and application of optogenetic tools and sensors to interrogate subcellular chemistry*

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Dissertation Title: *Multistable Pattern Formation and Synchronization in Heterogeneous Networks of Oscillatory Electrochemical Reactions*

DEPARTMENT OF CIVIL, ELECTRICAL AND COMPUTER ENGINEERING

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DOCTOR OF PHILOSOPHY

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Dissertation Title: *Novel Framework to Address the Performance Bias in Intelligent Transportation System Applications*

DEPARTMENT OF COMPUTER SCIENCE

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Thesis Title: *Comparative Performance Analysis of Distributed Deep Neural Networks in Federated Learning Environments*

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Thesis Title: *A Comprehensive Approach to Dental Cavity Analysis from Prediction to Localization and Quantification using Computer Vision*

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Thesis: *Utilizing TEE to develop privacy-preserving and verifiable MLaaS solutions*

Nithish Kumar Maley

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Thesis Title: *Seed protein content estimation and genotype mapping with bench-top hyperspectral imaging*

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Thesis Title: *Leveraging Attack Algorithms for Approximate Unlearning in Machine Learning: A New Paradigm for Privacy enhancement*

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DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

MASTER OF SCIENCE

GEOGRAPHIC INFORMATION SCIENCE

Sk Muhammad Asif

Mymensingh Sadar, Bangladesh

Thesis Title: *Comparing Machine Learning Methods for Geomorphometry-Based Detection of Meander Cutoffs along the Red River*

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Lees Summit, Missouri

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Ankara, Turkey

Thesis Title: *Improving INSAR Accuracy for Slow Deformation Monitoring with LiDAR and GPS*

Donivan D. James

Blue Springs, Missouri

Yahya Ali Khan

Multan, Pakistan

Bishal Roy

Dinajpur, Bangladesh

Thesis Title: *Seeing the Unseen: Soil Carbon Estimation from Hyperspectral Imagery with Wavelet Decomposition and Frame Theory*

Juan Skobalski

Chacabuco, Argentina

Thesis Title: *Bridging the gap between crop breeding and GeoAI: Soybean yield prediction from multispectral UAV images with transfer learning*

METEOROLOGY

Tyler Jordan Ceriotti

Arnold, Missouri

Thesis Title: *Rain, snow, and ice: Forecasting central United States winter storms with transitional precipitation types using historical synoptic and observational data*

Elisabet De Jesús Otero

San Juan, Puerto Rico

Thesis Title: *Future Intensification of Tropical Cyclones Under Warmer Climate in the Southeast U.S. and the Caribbean*

Molly Gerhardt

Saint Louis, Missouri

Thesis Title: *Heavy Rainfall in Elevated Convection*

Margaret Ann Ideker

Dallas, Texas

Thesis Title: *Synoptic analysis of critical fire danger in the Middle Mississippi Valley*

Benjamin Patrick Schaefer

Kennard, Nebraska

DOCTOR OF PHILOSOPHY

GEOINFORMATICS AND GEOSPATIAL ANALYTICS

Julee Wardle

Saint Charles, Missouri

Dissertation Title: *Datacube-Driven Spatiotemporal Analyses of Vegetation Trends in Djibouti using Digital Earth Africa Cloud-Based Computational Platform*

INTEGRATED AND APPLIED SCIENCE

Dennis Lee Campbell

Olive Branch, Mississippi

ENVIRONMENTAL SCIENCE AND GEOGRAPHIC INFORMATION SCIENCE

Dissertation Title:

Modeling the Impact of Racial Segregation on Nature: A CPG Study on Bee Diversity in a Shrinking City

DEPARTMENT OF PHYSICS

MASTER OF SCIENCE

ENGINEERING

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East Saint Louis, Illinois

Marcus J Lespasio

Norfolk, Massachusetts

Graduation honors for candidates appearing in this book are calculated based on the Grade Point Average at the end of the Fall semester.

University honors will be officially calculated when final grades have been submitted and the degrees are conferred.

This program is not an official document.

HONORS AND AWARDS

OLIVER L. PARKS
AWARD IN AVIATION

Mary Cortesi

EUGENE F. KRANZ
AWARD IN ENGINEERING

Caroline Sear

EDWARD A. DOISY
AWARD IN SCIENCE

Caroline Christ

THE WINGS TRADITION

The “Wings Ceremony” gets its name from the tradition in aviation of awarding a pin in the shape of a bird’s wings to those who master the skill of flying. Dating back to 1927, students who graduated from Parks College, and now from the School of Science and Engineering, are awarded a wings pin upon completion of their studies.

The wings pin has come to represent academic success in all fields of study at the college. It stands as a symbol of the freedom to pursue one’s dreams and serves as a reminder to return home and share one’s successes with all.

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ABOUT SAINT LOUIS UNIVERSITY



Saint Louis University is one of the oldest and most prestigious Catholic universities in the United States. Founded in 1818, the University is recognized nationally for world-class academics, life-changing research and a strong commitment to faith and service.

Guided by its enduring Jesuit mission, Saint Louis University offers students a highly rigorous and deeply transformative education that empowers them to become bold, confident leaders.

In 2023, Saint Louis University educated more students than ever before and experienced unprecedented international enrollment: 15,204 students, from all 50 states and 96 countries. SLU's campus in Madrid, Spain, enrolled 1,104 students last fall.

A dedication to values-based education and social justice has earned Saint Louis University widespread acclaim and bolstered its status as a character-building college. Eighty percent of SLU students volunteer each year, nearly triple the national average among college students.

SLU is also a catalyst for urban renewal in the heart of a vibrant city. More than \$1.2 billion in housing, retail and business development is underway in Midtown St. Louis, and the University is in the center of the neighborhood's growth.

Inspired by its pioneering history while focused on its promising future, Saint Louis University continues to move forward with an unwavering commitment to serve a higher purpose while always seeking the greater good.

ACADEMIC EXCELLENCE

One of the country's top colleges (The Princeton Review, *The Wall Street Journal* and *Forbes* magazine) – and one of the country's top-10 Catholic colleges (Niche)

RESEARCH

Among the fastest-growing private research universities in the country, SLU had a 96% increase in research expenditures over the last seven years.

SERVICE

1.6 million hours of service completed by the SLU community annually

ENDOWMENT

\$1.8 billion, an increase of 88% over the last decade

ATHLETICS

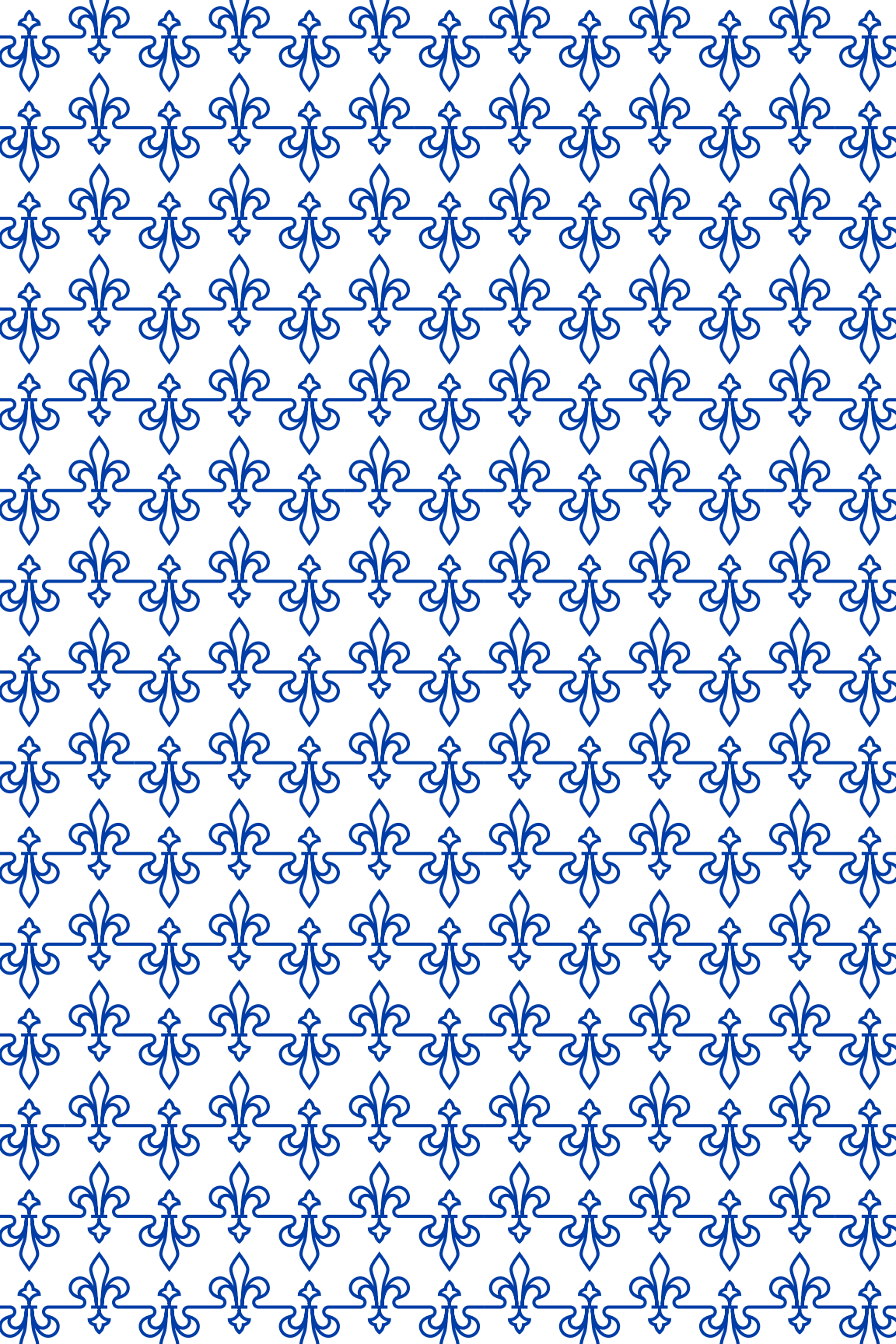
NCAA Division I, Atlantic 10 Conference

MASCOT

The Billiken, a mythical good-luck figure who represents “things as they ought to be”

ALUMNI

137,364 alumni in 50 states and 154 countries





SAINT LOUIS
UNIVERSITY™

— EST. 1818 —