

**College of Computing**  
Grand Valley State  
University

**Graduate Programs Webinar**



D. Robert Adams, Ph.D.  
*Associate Dean of Graduate Studies*



Rachel Salinas, M.Ed.  
*Assistant Dean*

# AGENDA

- Welcome from Dean Marouane Kessentini
- Overview of GVSU
- ESPRIT Agreements
- College of Computing Program Overviews
  - Applied Computer Science
  - Cybersecurity
  - Data Science & Analytics
  - Health Informatics & Bioinformatics
- Student Support & Resources
- Ask Us Anything!



# WELCOME!

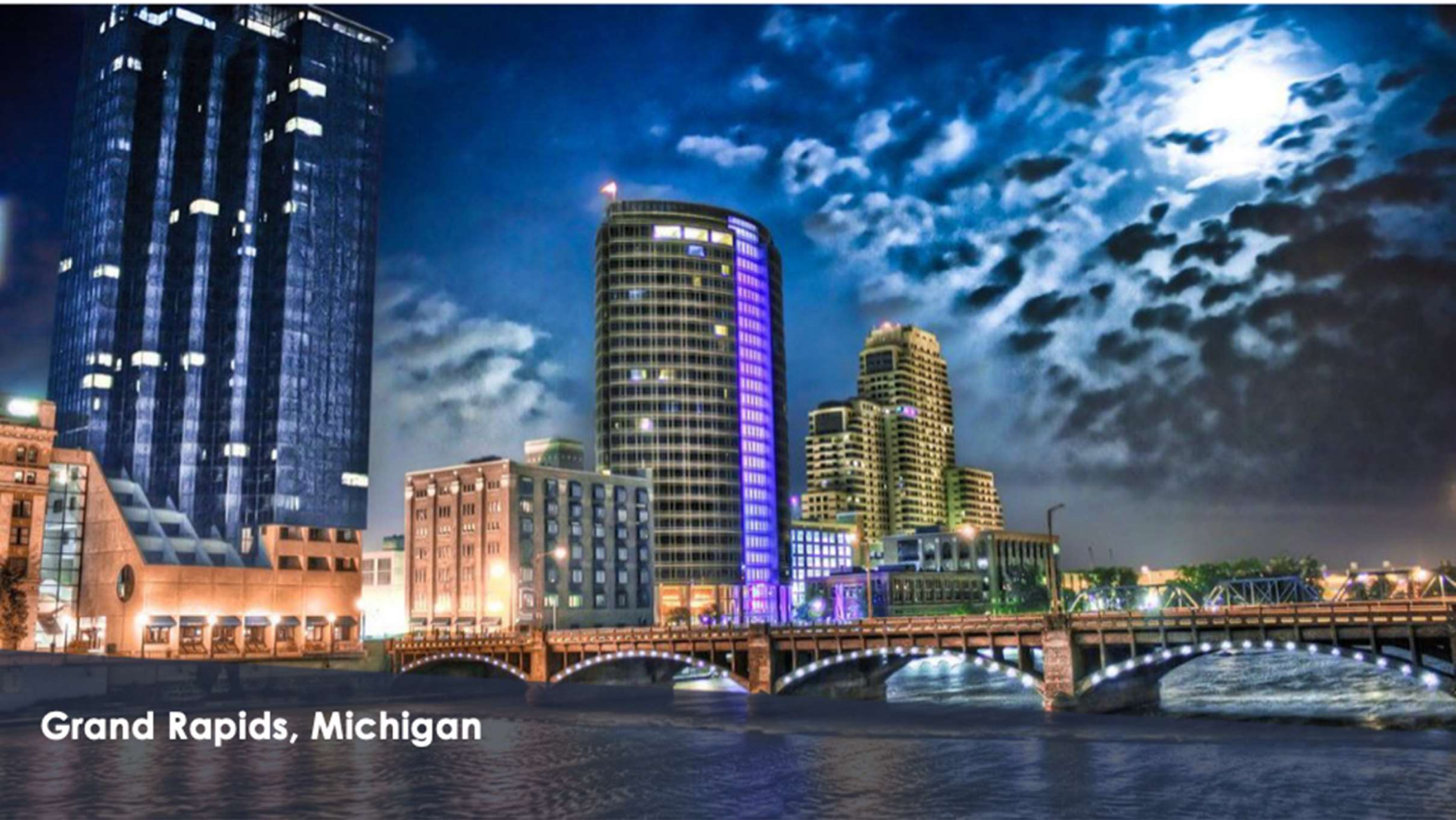
Marouane Kessentini, Ph.D.  
*Dean*





# WEST MICHIGAN AT A GLANCE

- GVSU is in West Michigan, with main campuses in Allendale and downtown Grand Rapids.
  - Second most-populated area in the State of Michigan.
  - Three-hour drive from the major metropolitan areas of Chicago and Detroit.
- Grand Rapids is ranked #1 mid-sized city in the U.S. by Business Facilities magazine and Reuters, based on economic strength and growth.
- The Wall Street Journal recognized Grand Rapids as the 2nd best place to live in the United States.
- Reasonable cost of living compared to other large U.S. cities.



**Grand Rapids, Michigan**



# GRAND VALLEY STATE UNIVERSITY

## AT-A-GLANCE



**145**

DEGREES OFFERED



**26**

AVERAGE  
CLASS SIZE



**84%**

RECENT GRADS ARE  
EMPLOYED OR PURSUING  
ADVANCED DEGREES



**96%**

OF STUDENTS  
RECEIVE AID



**4,000+**

STUDY ABROAD  
PROGRAMS



**25%**

OF STUDENTS  
PARTICIPATE WITH  
FACULTY IN RESEARCH



**400+**

STUDENT  
ORGANIZATIONS



**\$918** MILLION

ECONOMIC IMPACT  
ON COMMUNITIES



**4**

CAMPUSES



**137K+**

ALUMNI



**39**

CLUB SPORTS

**23,000+ students and \$26M in yearly research funding**

# ESPRIT Agreements

- 3+1+1 Program
- 4+1+1 Program
- 5+1 Program



# 3+1+1 Program

- Students will complete three years of undergraduate degree at ESPRIT
- Students will join GVSU to complete 30 credits to get an undergraduate degree. Followed by an additional 21 credits to complete the master's program (joint BS-MS).
  - Note: 12 credits are double counted for both the BS and MS

# 4+1+1 Program

- Students will complete four years of undergraduate degree at ESPRIT
- Students will join GVSU to complete 30 credits to get an undergraduate degree. Followed by an additional 21 credits to complete the master's program (joint BS-MS).
  - Note: 12 credits are double counted for both the BS and MS

# 5+1 Program

- Finish the fifth year at ESPRIT
  - Example: Fall 24 and Winter 25
- Take second year of their master's program at College of Computing GVSU
  - Example: Fall 25 and Winter 26
- **15 credits will be counted from the partner university**

# Undergraduate Programs in the College of Computing

- Computer Science
- Cybersecurity
- Data Science and Analytics
- Information Systems
- Information Technology
- Artificial Intelligence\*
- Software Engineering\*
- Human-Centered Computing\*

\*These programs are currently proposed and are expected to launch in Fall 2025.



# Graduate Programs in the College of Computing

- Applied Computer Science
- Cybersecurity
- Data Science and Analytics
- Health Informatics and Bioinformatics
- Artificial Intelligence\*
- Software Engineering\*
- Human-Centered Computing\*

\*These programs are currently proposed and are expected to launch in Fall 2025.

# Scholarships

- **Any admitted student from our university partners will receive a scholarship covering 100% of the difference between the in-state and out-of-state tuition.**
- Several other opportunities for scholarship are available: GSRA, GSI, research assistants, teaching assistants, faculty grants, internships, co-ops, etc.

# Costs per Year after Scholarship

Category	Estimated Cost
<i>Tuition</i>	<i>\$14,778</i>
<i>Living Expenses</i>	<i>\$10,944</i>
<i>Health Insurance</i>	<i>\$1,900</i>
<b>Total</b>	<b>\$27,622</b>



# APPLIED COMPUTER SCIENCE

D. Robert Adams, Ph.D.

*Associate Dean of Graduate Studies &  
Applied Computer Science Graduate  
Program Director*



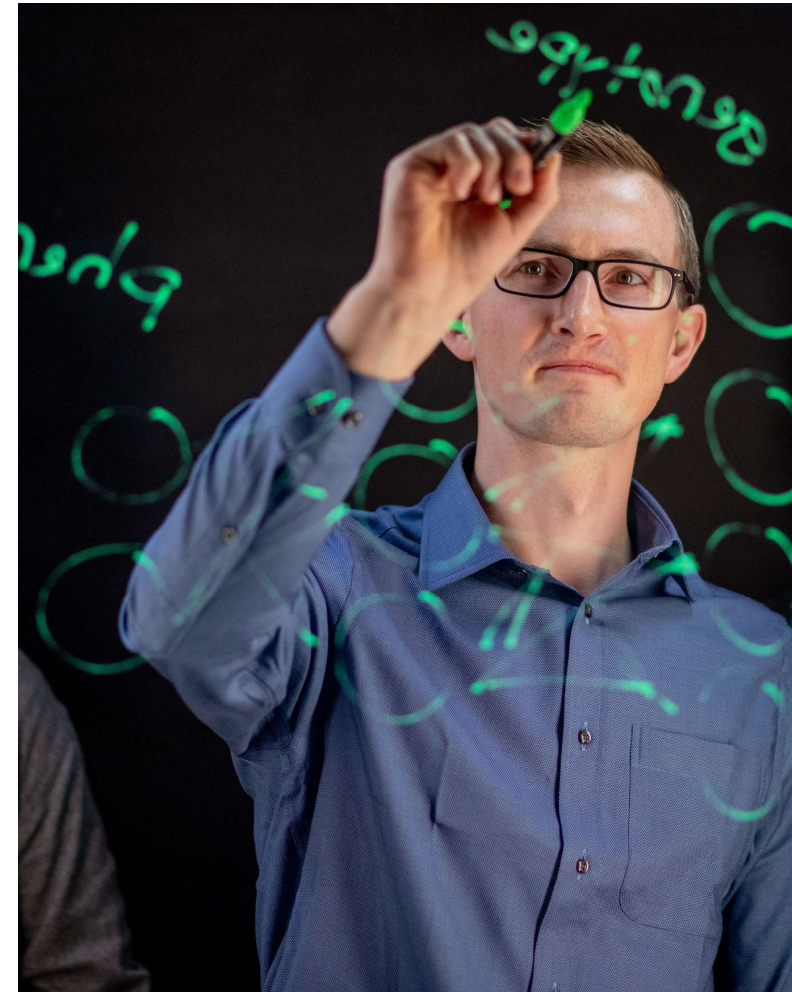


## PROGRAM OVERVIEW

- Hybrid of computer science, cybersecurity, data science, and information system
- Flexibility in tailoring a graduate degree to student goals
- Focus on hands-on experience
- Many career options
- Graduate faculty members are experts in their field, holding doctorate degrees
- In-person, online, and hybrid course offerings
- Students pay the same graduate tuition rate, whether they are in- or out-of-state residents
- High-performance computing cluster

# PROGRAM OVERVIEW

- We offer specializations and badges in the following areas:
  - Biomedical Informatics
  - Data Analytics
  - Database Management
  - Distributed Computing
  - Information Systems Management
  - Software Design and Development
  - Software Engineering
  - Web and Mobile Computing





# CYBERSECURITY

Samah Mansour, Ph.D.

*Cybersecurity Graduate Program Director*





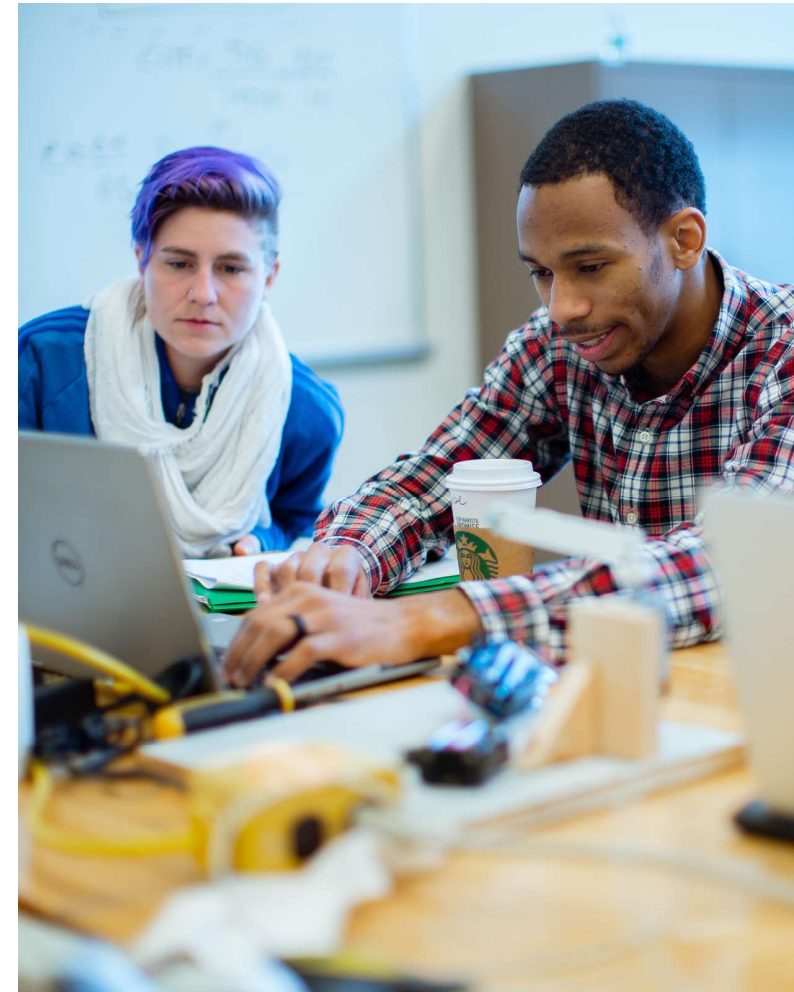
## PROGRAM OVERVIEW

- Comprehensive curriculum that addresses both the defensive and offensive aspects of cybersecurity
- Practical training with theoretical knowledge to prepare students for dynamic careers in cybersecurity across diverse sectors
- Incorporating preparation for industry-recognized certifications such as CEH, CND, CompTIA Security+ to ensure that our students gain credentials that are valued in the job market
- Opportunities of GA and TA for qualified students
- Industry collaborations provide practical experience and expose students to current industry practices and technologies.



# LEARN MORE

- Admissions Requirements
  - <https://gvsu.edu/s/2SI>
- Lakers Ready Path
  - <https://gvsu.edu/s/2Sk>
- Selection Process
  - <https://gvsu.edu/s/2Sj>





# DATA SCIENCE & ANALYTICS

Jonathan Leidig, Ph.D.

*Data Science & Analytics Graduate  
Program Director*



*Image created by ChatGPT.*

## PROGRAM OVERVIEW

- 50% computing and 50% statistical courses ensure comprehensive data science education
- Hands-on experience with Python, R, data engineering, and machine learning models
- Expertise in data visualization, statistical modeling, and machine learning-based analytics
- Focus on internships, real-world projects, and career readiness in data science fields
- Professional Science Master's Program
  - Industry-focused curriculum blending advanced technical skills with professional development for leadership in data science.



# LEARN MORE

- Prerequisite knowledge:
  - CIS 500: Fundamentals of Software Practice
  - STA 610: Applied Statistics
- Courses that are in the program:
  - Computing:
    - Knowledge Discovery and Data Mining
    - Data Engineering
    - Information Visualization
    - High-performance Computing
    - Machine Learning
  - Statistics
    - Statistical Computing and Graphics with R
    - Multivariate Data Analysis
    - Statistical Modeling I & II



*Image created by ChatGPT.*





# HEALTH INFORMATICS & BIOINFORMATICS

Suhila Sawesi, Ph.D.

*Health Informatics & Bioinformatics Graduate  
Program Director*



# PROGRAM OVERVIEW

- Intersection of healthcare, biology, computer science, information science, and statistics.
- Leverages biomedical data, information, and knowledge to support scientific research and healthcare advancements.
- Facilitates scientific inquiry, problem-solving, and decision-making, with the goal of improving human health and biological discoveries.
- Professional Science Master's Program
  - Combines advanced technical training with professional skills to prepare graduates for leadership roles in healthcare and bioinformatics.

# PROGRAM OVERVIEW

- Common Core Courses (23 credits = 60% of degree)
  - Intro to statistics, biotech, health and bioinformatics
  - Standard and non-standard database design
  - Knowledge discovery and data mining
  - Information visualization
- Selected emphasis (13 credits = 40% of degree)
  - Health Informatics:
    - Clinical information systems (EHR) & hospital administration
  - Bioinformatics/Computational Biology:
    - Machine learning & high-performance computing
  - Capstone (HI or BI project, project management)
  - Internship (HI or BI)





# PADNOS INTERNATIONAL CENTER



Libby Jawish

*Director of International Student and  
Scholar Services*

Andres Ortiz-Estevez

*Coordinator International Student  
Services*





# PIC SUPPORT OVERVIEW

- International Student Services (ISS)
  - Libby, Emily, Andres, Holl
- Immigration Advising & Reporting
- Cultural, Academic, Social Support
- Resource Connectors





# GRADUATE ASSISTANTSHIPS

- Awarded to admitted students only.
- Support teaching, research, or administrative tasks.
- Once admitted, complete our [web form](#) to show your interest.
- Open GA positions from across the university can be found on the [Graduate School website](#).
- Most GA hiring is done in March with most positions lasting for one academic year (Fall and Winter).
- Full-time GA's work 20 hours per week and receive a stipend of \$6500 per semester and a 9-credit tuition waiver.
- Half-time GA's are expected to work 10 hours per week and receive a stipend of \$3250 per semester and a 4.5-credit tuition waiver.
- More information can be found at the [Graduate School](#).



# NEXT STEPS

Learn more ([www.gvsu.edu/catalog](http://www.gvsu.edu/catalog))

Apply to a program ([www.gvsu.edu/admissions/](http://www.gvsu.edu/admissions/))

- Transcripts (emailed by your institution to GVSU)
  - 3.0 GPA\*
- Two references
- Resume
- TOEFL/IELTS/Duolingo
- \$30 application fee
  - Fee is waived for students in today's session!





# THANK YOU FOR JOINING US!

**An application fee waiver will be provided for participants of this webinar who apply to one of the programs.**



**QUESTIONS?**