

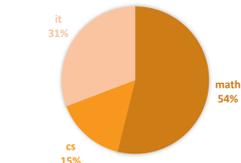
# MACS SCHOLARS PROGRAM

<https://wpunj.edu/cosh/mac-scholars-program/>

## RECRUITMENT

Partner schools  
WPU announcements  
Blackboard class pages  
Professional Advisors  
Application - Simple Google form  
Informal recommendations  
Webpage - current & relevant

MACS SCHOLARS (BY DISCIPLINE)



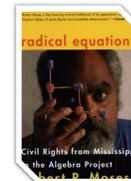
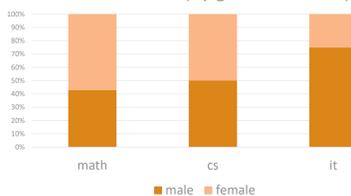
## COMMUNITY BUILDING

Introductory Meetings  
Information Sessions  
Summer Book Reading  
Summer Research Presentations  
Annual Award Ceremony

## SUPPORT

Scholarship Award  
Culturally Responsive Mentoring  
Cohort Experience  
Research Activities  
Internship Opportunities  
Networking Opportunities  
Academic Tutoring

MaCS Scholars (by gender at birth)



### Mentoring 101: Strategies for Mentoring Undergraduates

MaCS Mentor Workshop Series  
Supporting Mathematics and Computer Science Scholars Through Financial Support and Culturally Responsive Mentoring



## KEY OUTCOMES (BY YEAR 2)

29 scholarships awarded  
14 unduplicated scholars  
3 scholars graduated  
3 summer research projects  
1 scholar in REU  
1 book chapter published

At least 2 scholars continued only because of MaCS support



## OBJECTIVES

- Enroll low-income, academically talented students as WPU's Mathematics and Computer Science (MaCS) scholars and support them with scholarships, summer research and presentation opportunities, & culturally responsive mentoring.
- Improve year over year retention rates for MaCS scholars.
- Improve graduation rates for all MaCS scholars
- Perform a research study investigating relationship between college retention for low-income students and strength based, culturally responsive mentoring.

## BROADER IMPACT (BY YEAR 2)

Decolonizing the curriculum discussions  
Bilingual Advisor  
Collaboration with ASPIRE grant at WPU



## RESEARCH FINDINGS (BY YEAR 2)

### regarding MaCS scholars' science identity

- Have a strong sense of belonging to the community of scientists 67%
- Think of themselves as a "scientist" & find scientist's work appealing 56%
- Derive personal satisfaction from working on a team that is doing important research & belong to a field of science 44%

### regarding MaCS scholars' self-efficacy

- Confident that they can use technical science skills 67%
- Confident that they can figure out the scientific process for research 57%
- Confident that they can generate research questions, develop theories 33%

### regarding MaCS scholars' mentoring experience

- Agree / strongly agree:
- Mentor expresses confidence in their ability to succeed academically 75%
  - Mentor helps them perform to the best of their abilities in classes 58%
  - Mentor makes them feel like they belong in college 50%
  - Mentor encourages feeling considering future educational opportunities 42%



MaCS Scholarship Application

Please fill out this form to apply for the MaCS Scholarship for students who will be attending William Paterson University and will be majoring in Mathematics, Computer Science or Computer Information Technology. Scholarship recipients must qualify based on income requirements (Fell-eligible) under the terms of this grant.

This material is based on work supported by the National Science Foundation under NSF Grant # 2028011.

If you have any trouble with this application form, please contact Prof. Paul von Dohlen at [paul.vondohlen@wpunj.edu](mailto:paul.vondohlen@wpunj.edu) for assistance.

Recipient  Birth account

Email \*

Your email

First Name \*

Your answer

Last Name \*

Your answer

I am currently a ...

high school student

community college student

WPU student

Other

Culturally Responsive Mentoring And Persistence MaCS Scholars Program at WPU

Methodology	CRM Elements	Faculty of Implementation	Correlation with Student Persistence
To what level does mentoring activities correlate to student persistence, graduation, and STEM-related employment or graduate work?	Helps students make connections between their community, cultural, and global identities	Mentor training Mentor surveys Student surveys	PI's Survey (Science Identity Section)
Acknowledges the impact of systemic oppression, marginalization, and inequity	Mentor training Mentor surveys Student surveys	College Student Mentoring Scale (Barnes et al., 2015) Cultural Responsiveness Assessment (CRA) (2017) PI's Survey - Self Efficacy section Cultural Responsiveness Assessment (CRA) (2017)	

WILLIAM PATERSON UNIVERSITY  
**COMMUNITY DIALOGUE SERIES**  
FOR ALL FACULTY AND STAFF

DISCUSSION & INSIGHT  
Community Dialogue sessions are designed to increase self and community awareness, develop skills that support diversity, strengthen our personal and professional lives, and build greater inclusion at William Paterson University.

12:30PM - 1:15 PM  
ALL ON ZOOM

<b>Sept. 15th</b> UNDERSTANDING DECOLONIZATION Dr. Wendy Christensen	<b>Feb. 16th</b> DECOLONIZATION AND INTERSECTIONALITY Dr. Sneha Kalambur
<b>Oct. 20th</b> DECOLONIZING THE CURRICULUM Dr. Danielle Wallace	<b>Mar. 9th</b> DECOLONIZING POLICY, PRACTICE AND PROGRAMS Dr. Diana Hill
<b>Nov. 17th</b> DECOLONIZING THE VOC: WHAT A SOCIAL JUSTICE PROGRAM COULD LOOK LIKE Dr. Bahar Marjan	<b>Apr. 20th</b> DECOLONIZATION IN ACTION: A UNIVERSITY COMMITMENT Dr. Ali Mir

CLICK HERE FOR DIRECT LINK  
Meeting ID: 957 8937 8536  
Passcode: 266079  
[www.wpunj.edu](http://www.wpunj.edu)

## TAKES A VILLAGE...

Admissions Office  
Dean's Office  
Financial Aid Office  
Marketing  
Faculty Members  
Mentors  
Collaborators  
Administrative Assistants

External Evaluator - Dr. P. Bischoff

