

Paulus Nadi Wahjudi

Marshall University Tel: 304.696.5443
 WAEC 2103 Fax: 304.696.5454
 One John Marshall Drive E-mail: wahjudi@marshall.edu
 Huntington, WV 25755

Appointments

Interim Associate Dean College of Engineering and Computer Sciences, Marshall University	Fall 2020 – Present
Professor Department of Computer Sciences and Electrical Engineering, Marshall University	Fall 2019 - Present
Interim Director of Student Services College of Engineering and Computer Sciences, Marshall University	Fall 2018 – Summer 2020
Associate Professor (Tenured) Weisberg Division of Computer Science, Marshall University	Fall 2013 – Spring 2018
Assistant Professor (Tenure Track) Weisberg Division of Engineering and Computer Science, Marshall University	Fall 2009 – Spring 2013
Visiting Assistant Professor School of Computing, University of Southern Mississippi	Fall 2008 – Spring 2009
Adjunct Faculty School of Computing, University of Southern Mississippi	Spring 2008 – Summer 2008

Education

Ph.D., Computational Science emphasis Computer Science GPA: 3.797, Fall 2007
 University of Southern Mississippi, Hattiesburg, MS
 Dissertation: Evolutionary Abstraction of Semantics for Domain Specific Computing with Words

M.S., Computer Science GPA: 3.739, Fall 2003
 University of Southern Mississippi, Hattiesburg, MS
 Thesis: Vector Product Format Visualization with Multiple User Interaction

B.S., Computer Science, Highest Honors GPA: 3.953, Summer 2001
 University of Southern Mississippi, Hattiesburg MS

Professional Service

- *STEM Advisory Committee*, West Virginia Department of Education, 2017 – present
- *Steering Committee*, Undergraduate Research Day at the Capitol (URDC), 2017 – present
- *Committee Member*, Federated Conference on Computer Science and Information Systems (FedCSIS), 2010 – present
- *Editorial Member*, Journal of Management and Engineering Integration, 2010 – present
- *Reviewer*, *Journal of Network and Computer Applications*, Elsevier, 2010 – present
- *Cybersecurity event supervisor*, Search Committee on Recognizing Excellent Students (SCORES) Academic Festival, 2018 – present
- *National Advisory Committee* for Computer Science Praxis, Educational Testing Service, 2016 – 2020
- *Committee Member*, National Institute for Learning Outcomes Assessment (NILOA) for Degree Qualifications Profile Online Library , 2014- 2020
- *Faculty Advisor*, Marshall University ACM Student Chapter, 2009 – 2015
- *Program Committee Member*, International Conferences on Information Technology: New Generation, 2009 - 2018
- *Computer Science event supervisor*, Search Committee on Recognizing Excellent Students (SCORES) Academic Festival, 2010 – 2018
- *Computer Science event coordinator*, Exploring Engineering: Academy of Excellence, 2009-2010
- *Technical Program Committee*, Cyberspace Research Workshop, Shreveport, Louisiana, 2009 - 2019
- *Reviewer*, International Journal of Intelligent Information and Database Systems, 2010 - 2015
- *Judge*, ACM International Collegiate Programming Competition – Mid Central Region, 2009 - 2015
- *Coach*, Marshall University ACM International Collegiate Programming Competition Team, 2009 – 2015
- *Coach*, Bearing Point Inc. Invitational Programming Competition, March 28, 2008
- *Judge*, 2009 Mississippi Science Olympiad – Robo-Cross, March 27, 2009
- *Judge*, 2009 Mississippi Science Fair – Intel Excellence in Computer Science, March 18, 2009
- *Chair*, Danny R. Carter Scholarship Committee, Fall 2008 – Spring 2009
- *Chair*, Cellular South Annual Scholarship Committee, Fall 2008 – Spring 2009
- *Chair*, School of Computing Bob Cold Award, Fall 2008 – Spring 2009
- *Coach*, 2008 ACM Programming Competition – Southeast USA region, October 25, 2008
- *Judge*, Sixth Innovative Design for Computing Competition sponsored by NASA Space Grant, May 1, 2008
- *Judge*, 2008 Mississippi Science Olympiad - Robo-Cross and Robot Ramble, March 28, 2008
- *Coach*, Bearing Point Inc. Third Annual Intercollegiate Programming Competition, February 23, 2008
- *Judge*, University of Southern Mississippi Regional Science and Engineering Fair, March 20

University Service

- *University Recruitment Committee*, Academic Affairs, Marshall University, Spring 2021 - present
- *Data Science Council*, Academic Affairs, Marshall University, Fall 2020 - present
- *Committee Member*, Honors College Curriculum and Policies Committee, 2019 - present

- *Total Withdrawal Counselor*, Office of Student Success, Marshall University, Fall 2020 – present
- *Committee Member*, Yeager Selection Committee, Honors College, Spring 2020
- *Committee Member*, Hedrick Award, Marshall university, 2017 – 2020
- *Chair Student Recruitment and Retention Sub-Committee*, Strategic Planning Committee, Marshall University, Fall 2016 – Fall 2020
- *Committee Member and Secretary*, Physical Facilities and Planning Committee, Marshall University, Fall 2012 – 2017
- *EDGE Mentor*, Academic Affairs, Marshall University , Fall 2015-2017
- *Committee Member*, Career Service Student Specialist Search, Fall 2015-Spring 2016

College and Department Service

- *Committee Member*, Creative Research and Discovery Awards Committee, College of Engineering and Computer Sciences, Fall 2018 – present.
- *Personnel Committee*, College of Engineering and Computer Sciences, Fall 2015 – present
- *Lead Advisor*, College of Engineering and Computer Sciences, Fall 2018 – Present
- *Strategic Planning Committee*, Academic Affairs, Marshall University, Fall 2016- Fall 2018
- *College Representative*, Kanawha County College Fair, Fall 2014-Fall 2016
- *Committee Member*, Computer Science Faculty Search, Fall 2016 – Spring 2017
- *Committee Member*, Computer Science Chair Search, Fall 2015 – Spring 2016
- *Committee Member*, Safety Technology Faculty Search, College of Information Technology and Engineering, Fall 2012- Spring 2013
- *College Representative*, Cabell County HSTA Engineering and Technology Expo, Fall 2013
- *Committee Member*, Dean Search Committee, College of Information Technology and Engineering, Fall 2011-Spring 2012

Administration

Interim Associate Dean, College of Engineering and Computer Sciences, Fall 2020 – present

- Responsible in managing all academic affairs matters in the college
- Lead Advisor for the college to ensure proper academic advising and to represent the college in the Advisor council.
- Supervise academic probation and suspension in the college along with the academic improvement plan
- Coordinate with the office of recruitment on potential students and to update the recruiters
- Coordinate course scheduling with the Registrar office
- Review and approve all college marketing and informational materials
- Review and approve change of major, transfer and course substitution for the college

Interim Director of Student Services, College of Engineering and Computer Sciences, Fall 2018 – Summer 2020

- Lead Advisor for the college to ensure proper academic advising and to represent the college in the Advisor council.
- Responsible for processing all incoming students and planning the college's orientation session
- Coordinate all college recruitment activities and represent the college when meeting potential students
- Review and approve all college marketing and informational materials

Funded Grants

“Scholarships and a Project-based Work Studio to Support Undergraduate Student Graduation and Entry into Computer Science, Engineering, and Safety Technology Careers”, 2020-2025, National Science Foundation, \$990,550, Co-PI.

“Deployable Remote Online Network Evaluator (DRONE)”, 2018 – 2020, Marshall University – West Virginia Office of Technology Cyber Security Division, \$30,000, PI.

“MonitOR: Operating Room Sensor”, 2015 – 2019, Cabell Huntington Hospital, \$100,000, Co-PI.

“Faculty Mentored Internship Program”, 2018-2019, West Virginia Department of Education, \$84,413.52, Co-PI.

“Faculty Mentored Internship Program”, 2017-2018, West Virginia Department of Education, \$80,000, Co-PI.

“Collaborative Research: Implementing and Assessing Strategies for Environments for Fostering Effective Critical Thinking (EFFECTs) Development and Implementation”, 2010-2014, National Science Foundation #1022661, \$109,949, Co-PI.

“Landslide Hazard Management System in West Virginia – Phase I”, 2011 – 2013, West Virginia Department of Transportation Division of Highways, \$249,225, Project Manager.

“Development of Digital Inventory and GIS Web-Based Applications for West Virginia's Outdoor Advertising Program”, 2011 – 2012, West Virginia Department of Transportation Division of Highways, \$149,325, Project Manager.

“Computing Technology Farm: An Approach Towards Students Development in Computer Science”, 2010 - 2011, Marshall University Center for Teaching and Learning: Hedrick Program Grant for Teaching Innovation, \$5000, Principal Investigator.

“Coordinated Enforcement Plan to Reduce Juvenile Crime using SWORD”, 2008 – 2009, United States Department of Justice Juvenile Accountability Block Grant, \$52,523. Principal Investigator.

Research Experience

Faculty Mentor, Faculty Mentored Internship Program, West Virginia Department of Education, 2017 – 2020

- Lead students in the development of the West Virginia School Academic Calendar Web Application to be used by all counties in West Virginia to design, validate and publish their academic calendar.
- Lead students in the development of West Virginia Special Education Monitoring Tool to replace the existing Excel based system.
- Assist in reviewing the Educator Evaluation project for teachers and school leaders.
- Assist in the penetration testing of West Virginia Department of Education public systems.

Academic Mentor and Research Fellow, HLC Academy on Student Persistence and Completion at Marshall University, 2015 – 2017

- Mentor and Fellow for the EDGE Academic Mentoring Program to improve student retention through inquisitive advising. Review and identify key issues affecting student academic performance, from advisement to campus life.
- Each mentor is assigned “murky middle” students that statistically have been proven to have the lowest rate of retention. Each mentor has regular meetings with their students and closely supervise their academic progress.

EDGE Mentor, Marshall University, 2015 – 2017

- First group of faculty selected for applied research in mentoring to increase student persistence and completion. Mentors meet with students and are actively involved in their academic career.
- Assigned over 20 mentees of “murky middle” students (GPA 2.0-3.25) that constitute approximately 32% of the incoming freshman class. Statistically, 42.1% of the “murky middle” student will not return for the second year. Retention of EDGE Mentees is at 72.4% which is significantly higher than the baseline data.
- The group developed a new advising technique called “inquisitive advising” that is currently being refined and have been submitted for publication.

Co - Principal Investigator, Collaborative Research: Implementing and Assessing Strategies for Environments for Fostering Effective Critical Thinking (EFFECT's) Development and Implementation, 2010 – 2015, \$109,949

- Funded by National Science Foundation Division of Undergraduate Education Award #1022661
- Collaborative work with University of South Carolina to develop EFFECT's in Engineering and Computer Science courses.
- Responsible for development and coordination of EFFECT's for Computer Science subjects.
- Taught faculty at Fairmont State University to develop and implement their own EFFECT's.

Principal Investigator, Coordinated Enforcement Plan to Reduce Juvenile Crime using SWORD, 2008 – 2009, \$100,000

- Development of SWORD software system for Forrest County Youth Court and Forrest County Detention Center. The grant is funded by the United States Department of Justice. SWORD includes biometrics identification of juveniles, geographical classification of juveniles and assessment reports on area deemed to be of high risk for juveniles.
- This research is a collaborative effort between USM School of Social Work, USM School of Computing, City of Hattiesburg, Forrest County Youth Court and Forrest County Detention Center.