

# Gabriel Lopez Zenarosa

Associate Professor of Practice, College of Business, Stony Brook University

<https://sites.google.com/caa.columbia.edu/zenarosa>

## EDUCATION

Doctor of Philosophy, University of Pittsburgh, Pittsburgh, PA, August 2016, Industrial Engineering, *Operations Research in Healthcare Delivery*

Master of Software Engineering, Carnegie Mellon University, Pittsburgh, PA, December 2005, Software Engineering, *Formal Methods in Software Engineering*

Master of Science, Columbia University, New York, NY, May 2002, Computer Science, *Databases and Information Management*

Bachelor of Science, University of the Philippines, Quezon City, Philippines, April 1997, Computer Science, *Computer-supported Cooperative Work*, Cum Laude Honors

## ACADEMIC EXPERIENCE

Associate Professor of Practice, Stony Brook University, Stony Brook, NY, September 2024 – present

Assistant Professor of Professional Practice, Rutgers, The State University of New Jersey, Piscataway, NJ, September 2021 – September 2024

NRC Research Associate, National Academies of Sciences, Engineering, and Medicine, Washington, DC, June 2019 – June 2021

Assistant Professor, University of North Carolina at Charlotte, Charlotte, NC, August 2016 – May 2020

Faculty Fellow, Air Force Research Laboratory (AFRL) Summer Faculty Fellowship Program (SFFP), Summer 2017

Research Programmer, Carnegie Mellon University, Pittsburgh, PA, August 2007 – September 2008

Master of Software Engineering Fellow, Carnegie Mellon University, Pittsburgh, PA, August 2005 – May 2007

Student Assistant, Advanced Science and Technology Institute, Department of Science and Technology (Philippines), Quezon City, Philippines, April 1995 – April 1997

## INDUSTRY EXPERIENCE

Software Quality Assurance Test Engineer, University of Pittsburgh (National Surgical Adjuvant Breast and Bowel Project), Pittsburgh, PA, August 2008 – September 2009

Software Process Consultant, Self-employed, Pittsburgh, PA, February 2007 – June 2008

Client Support Engineer, NYFIX, Inc., New York, NY, May 2003 – August 2004

Software Engineer, REF Computer Corporation, New City, NY, June 1997 – August 2002

## TEACHING ACCOMPLISHMENTS

### TRAINING IN PEDAGOGY

Teaching with AI: Practical Approaches to Using Generative AI in Class (Harvard Business Publishing Education), May 17, 2024, <https://certificate.hbsp.harvard.edu/verify/a0ba536f15900>

Certificate in Effective Teaching Practice Framework, Association of College and University Educators (ACUE), 2022, <https://badgr.com/public/assertions/fBL5w-4ST12YA2lZAGFlvQ>

ACUE Microcredential in Creating an Inclusive and Supportive Learning Environment, Fall 2022,  
<https://badgr.com/public/assertions/VKgkzXTpS7OGVp9RHsAGkg>

ACUE Microcredential in Promoting Active Learning, Summer 2022,  
[https://badgr.com/public/assertions/O\\_Bi1ZhyTpiNlV1CdH7NaQ](https://badgr.com/public/assertions/O_Bi1ZhyTpiNlV1CdH7NaQ)

ACUE Microcredential in Designing Student-Centered Courses, Spring 2022,  
<https://badgr.com/public/assertions/95AlxZeLTourlAuoCR09Cg>

ACUE Microcredential in Inspiring Inquiry and Preparing Lifelong Learners in Your Online Course,  
 Fall 2021, <https://badgr.com/public/assertions/iREQIV8qQPG1bWZ7nMZ1GA>

Rutgers Faculty Fellowship, Course Transformation Summer Institute, July 6, 2022 – July 26, 2022,  
 Teaching Excellence Network, Rutgers, The State University of New Jersey

Inductee and Member, Active Learning Academy, Academic Year (AY) 2018 – 2019, UNC Charlotte

#### COURSES TAUGHT AT STONY BROOK

Business Analytics, MBA 543, Spring 2025 (Upcoming)

Information Systems in Management, BUS 340, Fall 2024 – present

Introduction to Decision Sciences, BUS 220, Fall 2024

Internship, BUS 488, Fall 2024

#### COURSES TAUGHT AT RUTGERS

Management Information Systems (Course Captain), 33:136:370 (MIS), Fall 2021 – Spring 2024

#### COURSES TAUGHT AT UNC CHARLOTTE

Fundamentals of Stochastic System Analysis, EMGT 5202/SEGR 4202, Spring 2019

System Design and Deployment, SEGR 3101, Spring 2019

Fundamentals of Engineering Management, EMGT 5203/SEGR 4203, Fall 2018

Computational Methods for Systems Engineers II, SEGR 3105, Fall 2018, Spring 2018, Fall 2017

Master's Thesis Research (Sagar Satyanarayana, 6 credits), EMGT 6991, Spring 2018

Special Topics: Financial Toxicity in Cancer Treatment, EMGT 6090, Spring 2018

Master's Thesis Research (Will H. Gurkin, 5 credits), EMGT 6991, Fall 2017

Individual Study (3 Students): Simulation Models in Thoracic Organ Allocation, Donor Heart Discard  
 Decision Models, and Pretransplant Heart-failure Survival Models under Competing Risks,  
 EMGT 6890, Fall 2017

Individual Study (1 Student): Hidden Markov Models for Heart Failure, EMGT 6890, Second Summer  
 2017

Special Topics: Optimization in Heart Allocation, EMGT 6090, Spring 2017

Computational Methods for Systems Engineers I, SEGR 2105, Spring 2017, Fall 2016

#### COURSES DEVELOPED AT RUTGERS

Management Information Systems, 33:136:370, Fall 2021 – Spring 2024, Redesigned Course to Use  
 Tableau, Excel, and SQL to Transform and Combine Multiple Public Datasets for Informed  
 Managerial Decision-making, Received Funding from Rutgers Libraries to Use and Author Open  
 and Affordable Textbooks, Received Funding and Support from the Rutgers Teaching  
 Excellence Network via Their Course Transformation Summer Institute

## COURSES DEVELOPED AT UNC CHARLOTTE

Fundamentals of Stochastic System Analysis, EMGT 5202/SEGR 4202, Spring 2019, Redesign Course to Updated Textbooks

System Design and Deployment, SEGR 3101, Spring 2019, Redesign Course to Updated Textbook

Fundamentals of Engineering Management, EMGT 5203/SEGR 4203, Fall 2018, Redesign Course to Updated Textbooks

Computational Methods for Systems Engineers II, SEGR 3105, AY 2017 – 2018, Redesign Course for Data Analytics in R

Computational Methods for Systems Engineers I, SEGR 3105, AY 2016 – 2017, Redesign Course for Object-oriented Programming (C++, Fall 2016 and Java, Spring 2017)

## STUDENTS MENTORED AT STONY BROOK

Angela Wang, Mentee for Business Management Internship Course (BUS 488), Fall 2024

## STUDENTS MENTORED AT RUTGERS

Eduardo Roa, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Fall 2023 – Spring 2024

Sanjana Gunda, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Fall 2023 – Spring 2024

Suyeon Jeon, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Fall 2023 – Spring 2024

Aneri Kapadia, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Fall 2023 – Spring 2024

Rut Mehta, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Fall 2023 – Spring 2024

David Deng, Rutgers Learning Assistant Program, CS Learning Assistant for MIS, Fall 2023 – Spring 2024

Vaarin Jain, Rutgers Learning Assistant Program, CS Learning Assistant for MIS, Fall 2023 – Spring 2024

Aayush Gariwala, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Spring 2024

Anthony Kravchenko, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Spring 2024

Jinyoung Oh, Rutgers Learning Assistant Program, CS Learning Assistant for MIS, Spring 2024

Xiang Fang, Rutgers Learning Assistant Program, RBS Learning Assistant for MIS, Fall 2023

Ish Shah, Rutgers Learning Assistants Program, CS Learning Assistant for MIS, Fall 2023

Del Lennard Padiz, Rutgers Honors College, Honors Course Contract, Finance Major, Fall 2021

## LECTURERS MENTORED AT RUTGERS

Yi Yu, Lecturer for MIS, Fall 2022 – Fall 2023

Disha Parkhi, Lecturer for MIS, Fall 2022 – Spring 2023

Taha Alhindi, Lecturer for MIS, Fall 2022 – Spring 2023

Vidita Gawade, Lecturer for MIS, Fall 2022

Meng Qu, Assistant Professor of Professional Practice, Lecturer for MIS, Spring 2023

Tianhui Wang, Lecturer for MIS, Spring 2023

Tarun Kaushik, Lecturer for MIS, Fall 2023

Jiaming Li, Lecturer for MIS, Fall 2023

Arshia Merdasi, Lecturer for MIS, Fall 2023

Saman Ebrahimi, Lecturer for MIS, Fall 2023

#### STUDENTS SUPERVISED AT RUTGERS

Gunjan Sinha, Textbook Writing Assistant for MIS, Fall 2023, Supported using my Open and Affordable Textbooks (OAT) Authoring Award from the Rutgers Libraries

Ashwini Vijaysinh Desai, Grader for MIS, Fall 2023

Aishwarya Mallikarjun, Grader for MIS, Fall 2023

Anindita Chavan, Grader for MIS, Spring 2023

Diksha Wuthoo, Course Development Assistant for MIS, Fall 2022, Supported using my Open and Affordable Textbooks (OAT) Program Award from the Rutgers Libraries

Tanvi Dinesh, Grader for MIS, Fall 2022

Amaresh Chittigidde, Grader for MIS, Fall 2022

Ketan Bedarkar, Grader for MIS, Spring 2022

Jash Prashant Shah, Grader for MIS, Fall 2021

#### STUDENTS ADVISED AT UNC CHARLOTTE

Sagar Satyanarayana, Doctor of Philosophy in Infrastructure and Environmental Systems, September 2021

Kevin B. Smith, Bachelor of Science in Systems Engineering, May 2020; Current PhD Student in University of Michigan Industrial and Operations Engineering

Rashini Ashokan, Master of Science in Engineering Management, December 2017, Co-chair: Xiuli He

Chetan-Kumar Chandrashekar, Master of Science in Engineering Management, December 2018, Co-chair: Xiuli He

Sagar Satyanarayana, Master of Science in Engineering Management, December 2018 (Passed Thesis Defense)

Aldron Peter Dsouza, Master of Science in Engineering Management, May 2019, Co-chair: Xiuli He

Anne McAllister, Master of Science in Engineering Management, December 2019

Madhur Jain, Master of Science in Engineering Management, May 2020

Will H. Gurkin, Master of Science in Engineering Management, Fall 2016 – Spring 2018 (Withdrawn)

#### STUDENT THESIS AND HONORS COMMITTEE MEMBERSHIPS AT UNC CHARLOTTE

Adarsh Muraleedharan, Master of Science in Engineering Management, May 2018

Darrian Parker, Bachelor of Science in Systems Engineering, May 2017

Mahesh Alapati, Master of Science in Engineering Management, December 2018

#### STUDENTS SUPERVISED AT UNC CHARLOTTE

Senior Design Team (AMETEK/PM): Stratford Alexander (BSSE), Mohammed Alhawaj (BSSE), Megan Dobbins (BSSE), Benjamin Furlong (BSME), Alexander McGirt (BSSE), Nicholas Pfeiffer (BSME), Maggie Sutton (BSET), Fall 2018

Finalist for Best Project or Best Project Video Award

Zehan Xu, Master of Science in Engineering Management, Fall 2017

Tseeye Odugba Potters, Master of Science in Health Informatics, Fall 2017 – Spring 2018

Mahathi Valluri, Master of Science in Health Informatics, Spring 2017

#### RESEARCH ACCOMPLISHMENTS

##### PUBLICATIONS: PEER-REVIEWED JOURNAL ARTICLES

- Smith, KB, Potters, TO, and Zenarosa, GL (2022). Pretransplant Survival of Patients with End-stage Heart Failure Under Competing Risks. *PLoS ONE*, Vol. 17, No. 8, Article No. e0273100, 12 pp.
- Zenarosa, GL, Prokopyev, OA, and Pasilio, EL (2021). On Exact Solution Approaches for Bilevel Quadratic 0-1 Knapsack Problem. *Annals of Operations Research*, Vol. 298, No. 1, pp. 555–572.
- Ford, CT, Zenarosa, GL, Smith, K, Brown, D, Williams, J, and Janies, D (2020). Genetic Capitalism and Stabilizing Selection of Antimicrobial Resistance Genotypes in *Escherichia coli*. *Cladistics*, Vol. 36, No. 4, pp. 348–357.
- Chen, S, Lanzas, C, Lee, C, Zenarosa, GL, Arif, A, and Dulin, M (2019). Metapopulation Model from Pathogen's Perspective: A Versatile Framework to Quantify Pathogen Transfer and Circulation between Environment and Hosts. *Scientific Reports*, Vol. 9, No. 1, Article No. 1694, 11 pp.
- Chang, C-CH, Bryce, CL, Shneider, BL, Yabes, JG, Ren, Y, Zenarosa, GL, Tomko, HE, Donnell, DM, Squires, RH and Roberts, MS (2018). Accuracy of the Pediatric End-stage Liver Disease Score in Estimating Pretransplant Mortality Among Pediatric Liver Transplant Candidates. *JAMA Pediatrics*, Vol. 172, No. 11, pp. 1070–1077.
- Ashokan, R, Zenarosa, GL, and He, X (2018). Diffusion Model for the Adoption of Smartphone Brands under Competitive Pricing. *International Journal of Trade, Economics and Finance*, Vol. 9, No. 3, pp. 96–99.
- Bryce, CL, Chang, C-CH, Ren, Y, Yabes, JG, Zenarosa, GL, Iyer, AK, Tomko, HE, Squires, RH, and Roberts, MS (2018). Using Time-varying Models to Estimate Post-transplant Survival in Pediatric Liver Transplant Recipients. *PLoS ONE*, DOI:10.1371/journal.pone.0198132.
- Ren, Y, Chang, C-CH, Zenarosa, GL, Tomko, H, Donnell, DM, Kang, H-J, Roberts, MS, and Bryce, CL (2013). Gray's Time-varying Coefficients Model for Posttransplant Survival of Pediatric Liver Transplant Recipients with a Diagnosis of Cancer. *Computational and Mathematical Methods in Medicine*, DOI:10.1155/2013/719389.

##### PUBLICATIONS: BOOK CHAPTERS

- Zenarosa, GL, Veremyev, A, and Pasilio, EL (2019). Cascade of Edge Activation in Networks. In: Tagarelli, A and Tong, H (eds) *Computational Data and Social Networks. CSoNet 2019. Lecture Notes in Computer Science*, vol 11917, pp. 141–147. Springer, Cham.

##### PUBLICATIONS: PEER-REVIEWED CONFERENCE PAPERS

- Iyer, AK, Zenarosa, GL, Schaefer, AJ, Chang, C-CH, Bryce, CL, and Roberts, MS (2011). A Biologically Based Discrete-event Simulation Model of Liver Transplantation in the United States for Pediatric and Adult Patients. In Proceedings of the 2011 Winter Simulation Conference. WSC '11. IEEE, pp. 1275–1282.
- Zenarosa, GL and Leonard, RJ (2011). Towards Automated Oracles for GUI Input Validation. In Proceedings of the 6th International Workshop on Automation of Software Test. AST '11. ACM, pp. 113–114.
- Zenarosa, GL and Simanta, S (2008). Experiences in Engineering Active Replication into a Traditional Three-tiered Client-server System. In Proceedings of the 2008 RISE/EFTS Joint International Workshop on Software Engineering for Resilient Systems. SERENE '08. ACM, pp. 55–60.

#### PUBLICATIONS: PEER-REVIEWED ABSTRACTS

- Satyanarayana, S, Zenarosa, GL, Witt, B, Kumar, D, and Robinson, PA (2021). Trends in PrEP usage and PrEP-to-need ratio in Mecklenburg County, NC in 2013–2019. American Public Health Association Annual Meeting & Expo 2021, <https://apha.confex.com/apha/2021/meetingapp.cgi/Paper/493956>.
- Satyanarayana, S, Zenarosa, GL, Witt, B, Kumar, D, and Robinson, PA (2021). Microecology of PrEP Usage in Mecklenburg County, NC, 2013-2019. INFORMS Healthcare 2021, <https://www.abstractsonline.com/pp8/#!/9318/presentation/708>.
- Smith, K, Odugba Potters, T, and Zenarosa, GL (2019). Pretransplant Survival of Patients with End-stage Heart Failure Under Competing Risks. National Conference on Undergraduate Research 2019, [https://apps.cur.org/ncur2019/search/Display\\_NCUR.aspx?id=112839](https://apps.cur.org/ncur2019/search/Display_NCUR.aspx?id=112839).
- Smith, K, Zenarosa, GL, Ford, CT, Williams, J, and Janies, D (2019). Phylogenetic Analysis of the Genetic Evolution of Multi-drug Resistant Escherichia Coli. National Conference on Undergraduate Research 2019, [https://apps.cur.org/ncur2019/search/Display\\_NCUR.aspx?id=112189](https://apps.cur.org/ncur2019/search/Display_NCUR.aspx?id=112189).
- Clark, LA, Patel, R, Blanchette, CM, Noone, JM, Zenarosa, GL, and Howden, R (2017). Emergency Department Use among Autosomal Dominant Polycystic Kidney Disease Patients in the US. Value in Health, Vol. 20, No. 9, pp. A551–A552.
- Clark, LA, Patel, R, Blanchette, CM, Noone, JM, Zenarosa, GL, and Howden, R (2017). Burden of Renal Transplant among a Cohort of US Medicare Beneficiaries with Autosomal Dominant Polycystic Kidney Disease. Value in Health, Vol. 20, No. 9, pp. A516–A517.
- Chang, C-CH, Bryce, CL, Shneider, BL, Yabes, JG, Ren, Y, Zenarosa, GL, Tomko, HE, Donnell, DM, Squires, RH and Roberts, MS (2017). The Pediatric End-stage Liver Disease (PELD) Score Underestimates Pretransplant Mortality in Pediatric Liver Transplant Candidates. Hepatology, Vol. 66, No. S1, pp. 888A–889A.
- Zacherle, E, Nair, AG, Blanchette, CM, Noone, JM, Zenarosa, GL, and Howden, R (2017). Patient and Hospital Characteristics Related to Liver and Kidney Donations in the United States. Value in Health, Vol. 20, No. 5, pp. A45–A46.

#### PUBLICATIONS: MAGAZINE ARTICLES

- Jaspan, C, Keeling, M, Maccherone, L, Zenarosa, GL, and Shaw, M (2009). Software Mythbusters Explore Formal Methods. IEEE Software, Vol. 26, No. 6, pp. 60–63.

#### INVITED LECTURES

- Academy for Population Health Innovation, UNC Charlotte, March 28, 2019
- Infrastructure and Environmental Systems Seminar, UNC Charlotte, September 25, 2018

Academy for Population Health Innovation, UNC Charlotte, May 17, 2018

College of Health and Human Services, UNC Charlotte, November 8, 2017

Levine Cancer Institute, June 27, 2017

College of Health and Human Services, UNC Charlotte, November 29, 2016

#### PRESENTATIONS

2023 Rutgers Active Learning Symposium, Piscataway, NJ, May 2023

American Public Health Association Annual Meeting & Expo 2021, Denver, CO and online, October 2021

Eighth International Conference on Computational Data and Social Networks, Van Lang University, Ho Chi Minh City, Vietnam, November 2019

Seventh Annual Meeting of the AFRL Mathematical Modeling and Optimization Institute, Shalimar, FL, July/August 2019

International Conference on Economics and Finance Research, Prague, Czech Republic, April 2018

Fifth Annual Meeting of the AFRL Mathematical Modeling and Optimization Institute, Shalimar, FL, August 2017

National Donor Day Symposium, Charlotte, NC, February 2017

INFORMS Annual Meeting 2016, Nashville, TN, November 2016 (One presentation and one chaired session on Large-scale Stochastic Mixed-Integer Programs)

INFORMS Annual Meeting 2015, Philadelphia, PA, November 2015

MSE 25<sup>th</sup> Anniversary, Carnegie Mellon University, Pittsburgh, PA, March 2015

INFORMS Annual Meeting 2015, San Francisco, CA, November 2014 (Two presentations)

Winter Simulation Conference 2011, Phoenix, AZ, December 2011

Sixth International Workshop on Automation of Software Test, Honolulu, HI, May 2011

2008 RISE/EFTS Joint International Workshop on Software Engineering for Resilient Systems, Newcastle upon Tyne, United Kingdom, November 2008

#### FELLOWSHIPS, GRANTS, AND CONTRACTS AWARDED

Student Belonging Institute, Zenarosa, GL (Contributing Faculty), P3 Collaboratory, Rutgers, The State University of New Jersey, (AY 2023 – 2024), \$1,000 (Stipend).

Open and Affordable Textbooks (OAT) Authoring Award, Zenarosa, GL (PI), Rutgers Libraries, Rutgers, The State University of New Jersey, (AY 2023 – 2024), \$3,500.

Faculty Learning Community, Zenarosa, GL (Contributing Faculty), Developing Microcredentials to Improve Student Outcomes, P3 Collaboratory, Rutgers, The State University of New Jersey, (AY 2022 – 2023), \$500.

Love of Learning Award, Zenarosa, GL (Awardee), The Honor Society of Phi Kappa Phi, (2022 – 2023), \$500.

Open and Affordable Textbooks (OAT) Award, Zenarosa, GL (PI), Rutgers Libraries, Rutgers, The State University of New Jersey, (AY 2022 – 2023), \$1,000.

Gilead Research Grant Award (CO-US-276-5500), Robinson, PA (PI) and Zenarosa, GL (Co-I), Evaluation of a Novel Method for Determining County-Level Changes in Pre-exposure Prophylaxis Usage, UNC Charlotte, (June 21, 2019 – December 31, 2022), \$77,813.16.

National Research Council Research Associateship Programs (NRC RAP), Zenarosa, GL (Fellow), Stochastic Bilevel Quadratic Knapsack Problem, National Academies of the Sciences, Engineering, and Medicine, (June 3, 2019 – June 2, 2021), \$85,542 stipend + \$4,000 travel (Year 1); \$88,542 stipend + \$4,000 travel (Year 2)

Faculty Research Grant Award, Zenarosa, GL (PI), Optimizing Budget Appropriation for Network Subproblems Under Uncertainty, UNC Charlotte, January 2018 – May 2019, \$7,700

Air Force Research Laboratory (AFRL) Summer Faculty Fellowship Program (SFFP), Zenarosa, GL (Faculty Fellow), The Bilevel Quadratic Knapsack Problem, AFRL, (June 5, 2017 – July 28, 2017), \$15,351.72 (Summer stipend).

Training Grant T-32 Award (8 TL1 TR 000145-5, 8 TL1 TR 000145-6, and 8 TL1 TR 000145-7 [UL1 RR024153 and UL1 TR000005]), Steven Reis (PI), Zenarosa, GL (Trainee), University of Pittsburgh Clinical and Translational Science Institute, National Institutes of Health (NIH), July 2011 – June 2016, \$67.3 million (Trainee Share: Tuition, Stipend, Travel, and Equipment allowance for two years, July 2010 – June 2011 and January 2012 – December 2012)

## SERVICE

### APPOINTMENTS

Course Captain for Management Information Systems (33:136:370), Rutgers Business School, Rutgers, The State University of New Jersey, Fall 2022 – Spring 2024

Academic Integrity Facilitator, Rutgers Business School, Rutgers, The State University of New Jersey, Spring 2022 – Spring 2024

Volunteer Judge for Johnson & Johnson Case Competition 2023, Rutgers Business School, Rutgers, The State University of New Jersey, October 27, 2023

Curriculum Committee Member, Systems Engineering and Engineering Management, UNC Charlotte, Fall 2018 – Spring 2019

Participating Faculty, Infrastructure and Environmental Systems Doctoral Program, UNC Charlotte, August 2016 – Fall 2021

Participating Faculty, Health Services Research Doctoral Program, UNC Charlotte, December 2016 – May 2020

Contributing Member, Charlotte Banks, UNC Charlotte, Fall 2016 – May 2020

Contributing Member, Academy for Population Health Innovation, UNC Charlotte, Spring 2018 – present

Contributing Member, Health Analytics and Outcomes Research Academy, UNC Charlotte, Fall 2016 – Fall 2017

### PROFESSIONAL AND SCHOLARLY ORGANIZATIONS

Member, The Honor Society of Phi Kappa Phi, 1997 – present

Member, Association for Computing Machinery (ACM), 2003 – present

Member, Institute for Operations Research and the Management Sciences (INFORMS), 2010 – present



President, INFORMS Student Chapter at the University of Pittsburgh, AY 2011 – 2012

Member, American Public Health Association (APHA), 2021 – 2022

Member, Society for Industrial and Applied Mathematics (SIAM), 2014 – 2018

Member, International Society for Pharmacoeconomics and Outcomes Research (ISPOR), 2017 – 2019

Reviewer, INFORMS Journal on Computing

Reviewer, Institute of Industrial and Systems Engineers (IISE) Transactions

Reviewer, Omega: The International Journal of Management Science

Reviewer, Journal of Combinatorial Optimization

Reviewer, Optimization Letters

Reviewer, Computational Social Networks

Reviewer, Mathematical Medicine and Biology: A Journal of the IMA

#### OUTREACH AND COMMUNITY SERVICE

Doctors Fear Patients Could Die Waiting for a New Liver in the Carolinas under New Rules (Charlotte Observer), Partial Interview Article, February 2019,  
<https://www.charlotteobserver.com/news/local/article240309256.html>

Children disadvantaged by liver transplant wait list scores, United Press International (UPI),  
[https://www.upi.com/Health\\_News/2018/09/17/Children-disadvantaged-by-liver-transplant-wait-list-scores/2731537207977/?sl=4](https://www.upi.com/Health_News/2018/09/17/Children-disadvantaged-by-liver-transplant-wait-list-scores/2731537207977/?sl=4), September 17, 2018

UNC Charlotte Faculty Initiative Increases Viability of Organ Transplants, Partial Interview Article, June 2017, <https://www.northcarolina.edu/news/2017/06/Preserving-life>

Systems Engineering and Engineering Management Promotional Video, Script-writing, Planning, and Speaking, Spring 2017

#### NON-ACADEMIC COMMUNITY SERVICE

Community Class Yoga Teacher (benefiting: American Foundation for Suicide Prevention), Hot Yoga Revolution, Metuchen, NJ, January 13, 2023

Volunteer Consultant, Dream to Succeed Foundation, Summer 2022

Tenor, Cathedral of Saint Patrick Choir, August 2018 – May 2019

Co-Chair, Art on Fire, Pittsburgh Glass Center, 2017

Tenor, Saint Paul Cathedral Choir, September 2007 – June 2015

Bass, Saint Paul Cathedral Choir, September 2006 – June 2007

#### PROFESSIONAL DEVELOPMENT

Student Belonging Institute, P3 Collaboratory, Rutgers – Newark, Fall 2023 – Spring 2024

Faculty Success Community Group, Center for Faculty Success, Rutgers, The State University of New Jersey, Fall 2023

Faculty Support Group: Group for Independent Feedback on Teaching (GIFT), Teaching Excellence Network, Rutgers, The State University of New Jersey, Fall 2023 and Fall 2022

Faculty Support Group: Preparation, Accountability, and Support for SoTL and Education Research (PASSER), Teaching Excellence Network, Rutgers, The State University of New Jersey, Fall 2022

Rutgers Active Learning Symposium, Active Learning Community, Rutgers, The State University of New Jersey, May 18, 2023

Anchoring Higher Education Conference, P3 Collaboratory, Rutgers – Newark, April 27, 2023

Faculty Learning Community: Developing Microcredentials to Improve Student Outcomes, P3 Collaboratory, Rutgers – Newark, AY 2022 – 2023

Faculty Support Group: PlayPosit Assessment Reflection Targeted Intervention (PARTI), Teaching Excellence Network, Rutgers, The State University of New Jersey, Fall 2022

Certificate in Effective Teaching Practice Framework, Association of College and University Educators, Fall 2021 – Fall 2022

Course Transformation Summer Institute, Teaching Excellence Network, Rutgers, The State University of New Jersey, Summer 2022

Active Learning Academy, UNC Charlotte, August 2018 – May 2019

NSF CAREER and CRII Writing Workshop, UNC Charlotte, Spring – Summer 2018

2018 NSF CMMI CAREER Proposal Writing Workshop, Charlotte, NC, March 2018

Department of Defense Workshop, UNC Charlotte, October 2016

Faculty Transitions Seminar Series, UNC Charlotte, August 2016 – December 2016

## HONORS AND AWARDS

Love of Learning Award, The Honor Society of Phi Kappa Phi, 2022 – 2023

National Research Council (NRC) Research Associateship Programs (RAP) Award, June 2019 – June 2021

Air Force Research Laboratory (AFRL) Summer Faculty Fellowship Program (SFFP) Award, 2017

Outstanding Research Assistant Award, University of Pittsburgh, 2014

Cum Laude Honors, University of the Philippines, 1997