Stephen T. Salako, B. Eng, MSc., Ph.D.
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Summary of Qualifications

- Problem-Solver with ability to analyse, interpret and evaluate data and develop ideas.
- Highly motivated and result-oriented professional with excellent leadership and communication skills.
- Excellent analytical skills and teamwork abilities developed through research and design projects with sound inter-personal skills developed through 20 years of lecturing experience at the University Level.

EDUCATION

Doctor of Philosophy in Mathematics
University of Texas at Arlington-Arlington, TX **Graduation Date:** December 2009
Thesis: Optimal control approach to image registration

Master of Science in Mathematics

University of Texas at San Antonio-San Antonio, TX **Graduation Date:** December 2005

Bachelor of Engineering in Chemical Engineering with Minerals Engineering [Honors]
University of Birmingham- Birmingham, U.K. **Graduation Date:** July 2002

Diversity and Inclusion Certificate Program
Cornell University- E-Cornell **Completion Date**: October 2022

Coursework: Improving Engagement, Counteracting Unconscious Bias, Diversity and Inclusion at Work, and Fostering an Inclusive Climate

Research Interest: Mathematics of Imaging, Optimization Problems, Partial Differential Equations, Mathematical Modeling, Math Education.

PROFESSIONAL EXPERIENCE

OUR LADY OF THE LAKE UNIVERSITY

- Professor of Mathematics	San Antonio, TX	August 2025
- Chair of Math and Science	San Antonio, TX	July 2022- Present
- Interim Chair of Math and Science	San Antonio, TX	June 2021-July 2022
-Associate Professor of Mathematics	San Antonio, TX	February 2020- Present
-Assistant Professor of Mathematics	San Antonio, TX	August 2012- February 2020
-Mathematics Program Head	San Antonio, TX	August 2020- Present

- College Algebra [Online/Onsite]/College Algebra for Science Majors, Elementary Algebra, Intermediate Algebra, Problem Solving, Topics in Discrete Mathematics, Calculus ii, iii,

Differential Equations, Linear Algebra, Real Analysis, Numerical Analysis, Modern Algebra, Math for the liberal arts, Math for liberal arts with quantitative reasoning.

-Q.E.P. Math coordinator August 2016 – May 2018

- Organized course content, supervised faculty teaching QUEST math classes, coordinated with the testing center to allow for math placement test, communicated with Administration/ACE Math center on student performance and intervention strategies.

-Reviewer for the Mathematics Journal (NCTM) Spring 2016- present
Reviewed several papers submitted for potential publication.

-McNairs scholars advisory board member Fall 2019-Fall 2020

-SAPrep site director/interim Math center coordinator June 2017 – July 2017

- Ensure implementation of pre-and-post testing and report scores to PREP office, supervised open day orientation, lunch arrangement for students, addressed any issues instructor or staff may have, visited student classrooms to monitor activities, evaluated Program Assistants and instructors. Advertised and ran the annual Math Matters program for incoming freshmen, preparing them for the College Mathematics class they would take.

TEXAS A&M UNIVERSITY San Antonio, TX June 2011- December 2011

Adjunct Faculty

- Differential Equations [onsite/independent study], Calculus III [Onsite], Topics in Discrete Mathematics

ITT TECHNICAL INSTITUTE Arlington /San Antonio, TX September 2009-July 2012

Full Time Instructor

- Technical Calculus, College Math 1, 2, 3, Advanced Topics in Technical Math, Statistics, Strategies for Problem solving.

UNIVERSITY OF TEXAS
Arlington, TX September 2006 – January 2010
Graduate Teaching Associate 2

- Taught Pre-Calculus 1, Pre-Calculus 2
- Responsible for Calculus 1 and 2 labs
- Graded Abstract Algebra assignments.

Upper Bound Math and Science Program [Trio] San Antonio, TX Summer 2006
Trigonometry Instructor

- Taught Trigonometry and Pre-Calculus topics to high school kids

UNIVERSITY OF TEXAS San Antonio, TX August 2004 – July 2006
Tutor

- Real Analysis
- Calculus 1, 2, 3
- Business Calculus
- Basic Statistics
- Chemistry
- Trigonometry
- Pre-Calculus
- College Algebra
- TASP
- Physics

Graduate Teaching Assistant 2 Spring 2004, Fall 2005

- Taught Intermediate Algebra 2, recitation labs (Calculus 1), graded and tutored in the Math lab.

UNIVERSITY OF BIRMINGHAM Birmingham, U.K. Summer 2001

Internship (Solids Processing)
- Measured zeta potentials in concentrated aqueous suspensions of ceramic powders using electro acoustics.
- Performed experiments using the Acoustosizer which was only about 1 of 3 present in the U.K. at the time.
- Made solutions calibrated for tests to be run.
- Represented data obtained from Experiment graphically.
- Taught Chemical Engineering doctoral students how to use the device with respect to their research.

IRACDA/SABER MENTOR- co-mentored Dr. Ramiro Ramirez (**2022- 2024**)
- Advised Dr. Ramirez on teaching pedagogy, areas on improvement.

SKILLS

Operating Systems / Mainframe
Windows 95, 98, 2000, XP, Vista

Proficient with MS Office 97, 2003, Vista
Excel, Access, PowerPoint, Word, Outlook, Microsoft Visio-studios

Computer Languages/Skills
FORTRAN, AutoCAD R14, Mathematica. Latex, MATLAB

HONORS, AWARDS AND COMMUNITY SERVICE

- Faculty Leadership Academy Fellow at Our Lady of the Lake University [**2012-2013**]
- National Scholars Honor Society
- Golden Key International Honour Society
- Mathematical Association of America
- Society of Industrial and Applied Mathematics
- Pi Mu Epsilon (Mathematics Honors Society)
- British Union of Chemical Engineers Society
- Who is Who at The University of Texas at San Antonio **2005-2006**
- Who is Who among students in American Colleges and Universities **2005-2006**
- Scholarship Recipient (**2006-2009**) in Science, Technology, Engineering and Mathematics provided by the NSF {National Science Foundation}
- Graduate Teaching Assistantships (**2003-2009**)
- 4-star [Highest grade] teaching evaluation at University of Texas at Arlington, TX (**2008-2009**)

- Highest student evaluation score at ITT tech Arlington out of 45 faculty members (**2009**)
- Head Usher at the Redeem Christian Church of God, Salvation Center, San Antonio, TX (**2004-2006**)
- Usher at the Redeem Christian Church of God, Household of Faith, Arlington, TX (**2007-2010**)
- Church Administrator, RCCG Grace Pavilion Church San Antonio, TX (**2010-2018**)
- Tutored privately for 3 years (UTSA student)- **2003-2005** Trigonometry, Calculus 1 and Calculus 2.
- Guest services [Usher] at Grace Point Church San Antonio, TX (**2018-present**)
- Stell-Ball Award for Faculty Excellence (**Spring 2018**)
- Connection Team member (Usher)/ POC for 2nd service Great Oaks Church, San Antonio, TX (**2023-present**)
- Elder at Great Oaks Fellowship (**2022- Present)**

GRANTS

- Flashman Endowed Fund for Special Teaching and Research Projects (**Fall 2012**)
  Title: Computing different powers of the arbitrary number i**.**
- Flashman Endowed Fund for Special Teaching and Research Projects (**Fall 2014**)
  Title: Modeling earthquake effects on Multi-Story Buildings
- Flashman Endowed Fund for Special Teaching and Research Projects (**Fall 2016**)
  Title: Mathematics of imaging with concentration in medical imaging [Tactile imaging]. - [Anticipated completion Date: **October 2017**]
- NSF Noyce Grant with Dr. Alyssa Maurer (**Fall 2016**) – not funded. Co-PI
- Flashman Endowed Fund for Special Teaching and Research Projects (**Fall 2018**)
  Title: Decline in Mental Math
- OLLU NSF IUSE-HIS "Alas Arriba" ("Wings Up") Grant (**submitted 2018**)- not funded. PI
- La Cosecha Grants Initiative, funded by Higher Education for a New America (HENA) at OLLU
  Title: "Educating Math, Science and Kinesiology Students through STEM Colloquiums via Professionals in Industry" (**Spring 2019**)- awarded $2000.
- Flashman Endowed Fund for Special Teaching and Research Projects **(project to begin Fall 2021)**
  Title: Mathematical Modeling in Ecology [Predator vs Prey relationship between Mountain Lions and deer in the Bulverde, TX area]. - awarded $600.
- NSF IUSE-HSI: SPIRAL [**Supporting Persistence by Increasing the Relevance of Algebra to Learning**] Project (**July 2022**)- awarded $500,000. [co-PI]
- Flashman Endowed Fund for Special Teaching and Research Projects **(project to begin Spring 2024)**
  Title: Leveraging MATLAB to address multifaceted Challenges- awarded $600.

PUBLICATIONS

1. Mehmet Ali Akinlar, Guojun Liao, Stephen Taiwo Salako,**"** ***A New non-rigid image registration method*****" Applied Mathematics Letter**. [August 2009]
2. H. Chena, C. Hsieh, M. Akinlar, M. Chu, Y. Gong, H. Hsiao, T. Lin, S. Salako, G. Liao **"An innovative method for nonlinear image registration" Libertas Mathematica (vol I-XXXI)** [2010]

3. Stephen Taiwo Salako, Guojun Liao, Mehmet Akinlar*,"* ***A method for Orthogonal Grid Generation"*** General mathematics notes, volume 2, no. 1 [2011]
4. Stephen Taiwo Salako, ***"Optimal Control Approach to Image Registration****." Universal Journal of Applied Mathematics, 6,* 135 - 155. doi: 10.13189/ujam.2018.060501. [2018]

CLASSES TAUGHT OVERALL

College Algebra
Intermediate Algebra I
Intermediate Algebra II
Elementary Algebra
Pre-Calculus
Statistics
Differential Equations
Problem Solving
Calculus 1
Calculus II
Calculus III
Technical Math
Partial Differential Equations
Discrete Mathematics
Real Analysis
Linear Algebra
Numerical Analysis
Math for the liberal arts
Modern Algebra
Topics in Discrete Mathematics
Math for the liberal arts/Math for the liberal arts with Quantitative Reasoning
Senior Seminar in Mathematics

CLASSES TAUGHT IN THE LAST 5 YEARS

- College Algebra
- Quantitative Reasoning
- Calculus I
- Calculus II
- Calculus III
- Mathematics for the Liberal Arts
- Numerical Analysis
- Discrete Mathematics
- Modern Algebra
- Quantitative Reasoning
- Topics in Real Analysis
- Linear Algebra
- Pre-Calculus
- Differential Equations
- Senior Seminar in Mathematics

Presentations

1. **"**Fun with graphs**",** Adams Hill Elementary OLLU visit presentation, Our lady of the lake University, San Antonio, TX [**Summer 2013**]

2. "Image Registration and Applications", Texas Undergraduate Mathematics Conference [TUMC], Nacogdoches, TX [**October 18th, 2014**]

3. "Optimal control approach to Image registration", The 95th Texas Section Meeting of the Mathematical Association of America, The Riverwalk, San Antonio, TX [**April 9-11, 2015**]

4. "How to succeed at OLLU", Math MaTTers, summer bridge program". Our Lady of the Lake University, San Antonio, TX [**June 24th, 2015**]

5. "A method for Orthogonal grid generation", The 96th Texas Section Meeting of the Mathematical Association of America, Nacogdoches, TX [**March 31st –April 2nd, 2016**]

6. "Experiences in London", ENGL 7339 London in Literature, Our Lady of the Lake University, San Antonio, TX [**22ND of September 2016**]

7. "Professional Burnout" at Lipscomb University in Nashville, Tennessee [**June 7th-9th 2017**]

8. "Importance of Math and Science", Vanguard Institute, Boerne, TX [**June 14th 2017**]

9. "How to succeed at OLLU", Math MaTTers, summer bridge program". Our Lady of the Lake University, San Antonio, TX [**June-July 2017**]

10. "Optimal control approach to image registration", Texas DE Conference at University of Texas in San Antonio **[March 24-25, 2018]**

11. "A Mathematical Modeling approach to College Algebra", The 98th Annual Meeting of the Texas Section of the Mathematical Association of America (MAA). [**April 5-7, 2018**]

12. "How to help students be successful in job interviews", CSKLS (Christian Society of Kinesiology and Leisure studies), Elgin, Illinois [**June 6th-8th 2018**]
13. "How to choose a career in a STEAM Field", Judge Andy Mireles Elementary School, San Antonio, Texas. [**May 22, 2019**]
14. "Promoting student engagement in online instruction", Our Lady of the Lake University, San Antonio, TX, Provost Professional Day, Stephen Salako, Charles Smith. [**August 11-12, 2020**]
15. "Journey and experiences as PhDs" Our Lady of the Lake University, McNairs scholars' program, Stephen Salako, Maribel Larraga [**March 27, 2021**]
16. "Choosing a career in a STEM Field", Vanguard Institute [Robotics Team], Boerne, TX. [**April 9th, 2021**]
17. "Data Analysis, Quantitative Reasoning Strategies for exceling in this area on the GRE", Presentation to the McNairs scholars' program [**June 28, 2022**]

REFERENCES

Professor Guojun Liao

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