

Ogenna Esimai

Computer Science and Engineering (CSE)
The University of Texas at Arlington (UTA)
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<http://biomecis.uta.edu/~ogenna/>
<https://ogennaesimai.github.io/>
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| Education & Clinical Training | Ph.D., Computer Science; UTA, Arlington, TX | (Expected May 2024) |
| | Advisor: Dr. Jean Gao | Fall 2017 - present |
| | Research Interests: Deep Learning, Data Integration, Data Mining Integration of Biomedical Data Using Deep Learning -Developing a novel approach to the integration of long, non-coding ribonucleic acid (lncRNA) and messenger RNA (mRNA) data. | |
| | Honors B.S., Computer Science, <i>magna cum laude</i> Jointly with graduation from Honors College; UTA | Jan. 2014 - May 2017 |
| | Pediatric Infectious Diseases Fellowship Michigan Medicine, Ann Arbor, MI | July 2008 - June 2011 |
| | Pediatric Residency Akron Children's Hospital (ACH), Akron, OH | July 2006 - June 2008 |
| | Pediatric Internship University of Texas Southwestern Medical Center/Children's Medical Center (CMC), Dallas, TX | June 2005 - July 2006 |
| | M.D., Medicine University of Alabama School of Medicine – Birmingham, Birmingham, AL | Aug. 2001 - May 2005 |
| | B.S., Biochemistry. Department Rank: 001/005 The University of Texas at Arlington, Arlington, TX | Jan. 1997 - May 2001 |

Technical Skills **Programming languages:** C, R, Python, Java, MATLAB, SQL, C++, HTML
Software Applications/Models: MPI, Git, TORA, LaTeX, Keras, COCOMO, SVN, TeXworks,
Secure File Transfer Protocol (SFTP), Secure Shell Client (SSH), operating system (OS)
virtualization (VirtualBox), StarUML, GraphPad Prism, Google TensorFlow
Operating Systems: Windows 10, Windows 7, Linux (Ubuntu, openSUSE, Fedora, CentOS),
Android.
Application Environments/Integrated Development Environments: Anaconda Navigator,
Spyder, Android Studio, Microsoft Visual Studio Express, Code::Blocks, Nano, Vim, NetBeans.

Laboratory/Experimental methods: sterile technique, bacterial culture, plate overlay assay of bacterial growth, Fluorescence-Activated Cell Sorting (FACS), PCR, mouse nasopharyngeal colonization, mouse nasopharyngeal washes

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| Awards and Honors | Fellow , Graduate Assistance in Areas of National Need (GAANN) '21 Spr., Sum.; '20; '19; '18; '17 | |
| | Fellow , G. Irene and Fernando G. Torgerson Graduate Studies Advancement Fund/ Honors Bridge to Graduate School | 2018, '17 |
| | Scholar , Virtual Grace Hopper Celebration | 2021 |
| | Scholar , Virtual Grace Hopper Celebration (Microsoft) | 2020 |
| | Scholar , ACM Richard Tapia Celebration of Diversity in Computing (ServiceNow) | 2020 |
| | Scholar , Society of Women Engineers, Cummins, Inc. Scholarship | 2018 |
| | Scholar , UTA Outstanding Student Leader Scholarship | 2018 |
| | Scholar , Golden Key International Honour Society at UTA Chapter | 2018 |
| | Scholar , National Society of Black Engineers (NSBE) BCA/Major/Fellows | 2018 |
| | Scholar , Charlie and Mollie Daniels Family Endowed Scholarship | 2021, '19, '18, '17 |
| | Scholar , NSBE Dallas/Fort Worth Professionals Chapter Scholarship | 2017 |
| | Scholar , Tapia Poster Presenter Scholarship | 2015 |
| | Scholar , Stuart Moldaw Scholarship | 2016, '15, '14 |
| | Scholar , Mineral District Medical Society (MDMS) Scholarship, Birmingham, AL | 2003, '02 |
| | Scholar , Louis Stokes Alliance for Minority Participation (LSAMP) Research | 2000 |
| | Scholar , Outstanding Mentor Scholarship, UTA-HOSTS! (Helping Other Students to Succeed) | 2000 |
| | Scholar , University Scholar Award, Office of the President, UTA | 2000, '99 |
| | Scholar , Laurence E. Baker Memorial Premedical Scholarship, UTA | 2001, '00, '99 |
| | Scholar , UTA Outstanding Freshman Scholarship | 2001, '00, '99, '98 |
| | Awardee , UTA, Outstanding Student Leader Award | 2018, '17 |
| | Awardee , Boys and Girls Club of Arlington, Overall Volunteer of the Year, Main Branch | 2017 |
| | Awardee , Thank You Award, BGCA, Main Branch | 2017 |
| | Awardee , Best in Class Award, Professional Practices, senior-level CSE class of 35 students | 2016 |
| | UTA, Professor Ron Cross, Class Professor | |
| | Awardee , UTA/Biomedical Engineering Student Society (BMESS), First Place Team member UTA/BMESS Medical Hackathon | 2016 |
| | Awardee , NIH/NMA Travel Award, National Medical Association Annual Meeting and Scientific Sessions, Las Vegas, Nevada | 2009 |
| | Awardee , Fellow Award in Basic Science Research, Annual Pediatric Research Symposium, Division of Pediatrics and Communicable Diseases, University of Michigan Health System, Ann Arbor, MI, "The Broad Spectrum Inhibitory Activity of a <i>Streptococcus pneumoniae</i> Strain is Mediated by Bacteriocins Which Can Be Purified." | 2009 |
| | Awardee , J. Kramer Research Award, Annual Postgraduate Research Day, ACH "LukE-LukD Patterns in Invasive and Non-Invasive Isolates of Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> (CA-MRSA) Infection at Akron, Ohio." | 2008 |
| | Awardee , Resident of the Month, ACH, OH, Staff-Nominated during PL-2 year. | 2006 |

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| Awardee , Above and Beyond Award, Peer-Nominated for performance during PL-I Night Float rotation, CMC, Dallas. | 2006 |
| Awardee , Above and Beyond Award, Peer-Nominated for performance during PL-I PICU rotation, CMC, Dallas. | 2006 |
| Awardee , Finalist Award, Short-term Research Project, Annual Medical Student Research Day, UASOM- Birmingham | 2002 |
| Awardee , Best Presentation Award, Article Selective, Class of 2005 MS-I Clinical Nutrition Course. | 2002 |
| Honoree , TBP , UTA Eta Chapter, Tau Beta Pi, the Engineering Honor Society (top 20%) | 2016 |
| Honoree , UPE , UTA Texas Gamma Chapter, Upsilon Pi Epsilon, the Intl. Honor Society for the Computing and Information Disciplines (top 35% or higher) | 2016 |
| Honoree , Alpha Chi , National College Honor Society (top 10% of class) | 1999 |
| Honoree , GK , Golden Key International Honour Society (top 15% of class) | 1999 |
| Honoree , ODK , Omicron Delta Kappa, the National Leadership Honor Society | 1999 |

Publications

& Peer-reviewed works

- Ogenna Esimai** and Jean Gao. **(2020)** Integration of Bioinformatics Data Using Deep Learning. ACM Richard Tapia Celebration of Diversity in Computing, September 16 - 19, 2020, virtual. Doctoral Consortium.
- Wholey W-Y, Abu-Khdeir M, Yu EA, Siddiqui S, **Esimai O** and Dawid S. **(2019)** Characterization of the Competitive Pneumocin Peptides of *Streptococcus pneumoniae*. *Front. Cell. Infect. Microbiol.* 9:55. doi: 10.3389/fcimb.2019.00055.
- Ogenna Esimai**. **(2015)** Using Motion Planning to Study Ligand Binding. ACM Richard Tapia Celebration of Diversity in Computing, February 18 - 21, 2015, Boston, MA. Poster.
- O. Esimai**, M. Shchepetov, J. Weiser, S. Dawid. **(2010)** Abstract. "The Broad Spectrum Inhibitory Activity of a *Streptococcus pneumoniae* Strain is Mediated by Pneumocins Which Can Be Purified." American Society for Microbiology (ASM) 110th General Meeting, San Diego, CA. May 2010. 10-GM-A-2941-ASM.
- O. Esimai**, M. Shchepetov, J. Weiser, S. Dawid. **(2010)** Abstract. "The Broad Spectrum Inhibitory Activity of a *Streptococcus pneumoniae* Strain is Mediated by Bacteriocins Which Can Be Purified." Pediatric Academic Societies' Annual Meeting, Vancouver, BC, Canada. E-PAS2010:4340.2.
- Vila-Carriles WH, Kovacs GG, Jovov B, Zhou ZH, Pahwa AK, Colby G, **Esimai O**, Gillespie GY, Mapstone TB, Markert JM, Fuller CM, Bubien JK, Benos DJ. **(2006)** Surface expression of ASIC2 inhibits the amiloride-sensitive current and migration of glioma cells. *J Biol Chem.* 2006 Jul 14;281(28):19220-32. Epub 2006 May 16.

Selected Research Experiences & Projects

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| Reproduced a Peer-Reviewed and Published RNA Sequence Analysis Project | 1 - 6/2020 |
| -Gained hands-on experience of work involved in RNA sequence analysis. | |
| -Increased skill set in previously unfamiliar area. | |
| -Advanced my research domain knowledge. | |

- Personal Online Learning Project** 4/2019
- Learned the basics of a new programming language.
 - Earned University of Michigan Python Basics Certificate on Coursera (see Licensures & Certifications section).
- TensorFlow by Google Project; MNIST handwritten dataset** 12/2017
- Implemented single and multi- hidden layer regular neural network and convoluted neural network algorithms to classify a dataset.
- MATLAB Project; AT&T face image & MNIST handwritten datasets** 11 - 12/2017
- Implemented data handling routine to extract subsets from datasets.
 - Implemented data handling routine to generate data files for extracted data subset.
 - Implemented linear regression classifiers with and without regularization.
 - Predicted class labels & calculated accuracy of above linear regression classifiers for training and test data.
- Distributed Research Experiences for Undergraduates (DREU)** 6 - 8/2014
- Advisor: Dr. Nancy Amato; Texas A&M University (TAMU), CSE Dept., College Station.
- Researched in robotic motion planning applied to computational biology and biochemistry.
 - <http://dreuarchive.cra.org/2014/Esimai/>
 - Presented, 2014 TAMU Undergraduate Summer Research Grants (USRG) Poster Session.
 - Presented research poster, 2015 ACM Richard Tapia Celebration of Diversity in Computing.
- Undergraduate Research Assistant** 10/2013 - 5/2014
- Advisor: Dr. Chengkai Li; UTA, CSE Dept., Arlington, TX.
- Implemented algorithm that extracts all the word tokens from an XML PubMed article.
 - Presented at 2014 National Conference on Undergraduate Research (NCUR).
- Pediatric Infectious Diseases Fellow** (2 years total) 7/2008 - 6/2011
- Advisor: Suzanne Dawid, M.D., Ph.D., Michigan Medicine, Ann Arbor, MI
- Worked to characterize the functions of the *blp* locus of the bacterium *Streptococcus pneumoniae* which is centrally involved in the inhibitory versus non-inhibitory competitive nature of different strains of this microorganism. (Publication listed in Publications section.) (Research Award listed in Awards and Honors section).
- Pediatric Resident** 2007 - 2008
- Advisor: John Bower, M.D., Akron Children's Hospital (ACH), Akron, OH
- Worked to determine the presence or absence of *lukD-lukE* in methicillin-resistant *Staphylococcus aureus* strains isolated at ACH. (Research Award listed in Awards and Honors section).

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| | Medical Student Advisor: Dr. Dale J. Benos, Univ. of AL at Birmingham, Department of Physiology -Worked to determine if or not the mechanism of decrease in proliferation of glioma brain cancer cells by 5-Aza-2'-deoxycytidine (AzaC) and glycerol involved apoptosis. (Publication listed in Publications section.) (Research Award listed in Awards and Honors section.) | Sum. 2003 |
| | Louis Stokes Alliance for Minority Participation (LSAMP) Research Scholar Advisor: Dr. Edward Bellion, UTA, Department of Chemistry and Biochemistry -Invited by Biochemistry professor to apply for research position. -Worked to characterize the nitrate reductase enzyme of the bacterium <i>Methylobacterium extorquens</i> . | 8/2000 - 5/2001 |
| Medical Grant Support | NIAID T32-HD07513 , Principal Investigator - Janet R. Gilsdorf, M.D., Pediatric Infectious Diseases Program Director, Department of Pediatrics, UMHS, 2010 Cellular and Molecular Biology in Pediatrics Training Program, 50% effort, Research Mentor-Dr. Suzanne Dawid. Please see award immediately below for further details. \$48,440. | 7/2010 - 6/2011 |
| | NIAID T32-HD07513 , Principal Investigator - Janet R. Gilsdorf, M.D., Pediatric Infectious Diseases Program Director, Department of Pediatrics, UMHS, 2009 Cellular and Molecular Biology in Pediatrics Training Program, 95% effort, Research Mentor-Dr. Suzanne Dawid. I will work to determine the role of <i>Streptococcus pneumoniae</i> genes of the 6B strain in the broadly active locus with regard to inhibitory activity and immunity by deletional analysis. In addition, I will purify the active peptides in order to determine their spectrum of activity with the eventual goal of evaluating their therapeutic potential by using them to clear mouse colonization and prevent sepsis. \$51,904. | 7/2009 - 6/2010 |
| | Akron Children's Hospital Foundation Grant , Principal Investigator- self, Research mentor-Dr. John Bower. Completed 90% of project work, My role involved writing a research proposal, applying for the grant, passing grant application through IRB review process, carrying out basic laboratory research work including classifying and sub-culturing <i>Staphylococcus aureus</i> cultures and conducting medical records/chart review, compiling study results, writing a research paper, presenting my research findings at the annual ACH Postgraduate Research Day, and as required by the Foundation, writing a summary report. Funding amount \$7520. | 7/2007 - 6/2008 |
| | NHLBI 5T35HL007473-22 , Principal Investigator – David E. Briles, M.D., Dept. of Microbiology, Univ. of Alabama at Birmingham, Short-term Training in Health Professional Schools Program, completed 100% of project, Research Mentor-Dr. Dale J. Benos. My role involved submitting an application with grant proposal, carrying out basic laboratory research work including generating growth curves portraying the effects of 5-Aza-2'-deoxycytidine (AzaC) and glycerol on the proliferation of glioma cells and using fluorescein isothiocyanate (FITC) conjugation of proteins explored the hypothesis that | 6/2002 - 8/2002 |

the decrease in proliferation occurs via an apoptotic mechanism. Presented my research findings at Annual UASOM Medical Student Research Day. Funding amount and total cost – stipend of ~\$1500/month.

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| Medical Scientific Activities | Poster Presentation , Abstract, Annual Pediatric Research Symposium, UMHS. “The Inhibitory Spectrum of a <i>Streptococcus pneumoniae</i> Strain May be Mediated by Two Pneumocins that Differ in Their Dependence upon Novel Genes.” | 2010 |
| | Poster Presentation , Abstract 10-GM-A-2941-ASM, American Society for Microbiology (ASM), 110 th General Meeting, San Diego, CA. “The Broad Spectrum Inhibitory Activity of a <i>Streptococcus pneumoniae</i> Strain is Mediated by Pneumocins Which Can Be Purified.” | 2010 |
| | Platform Presentation , Abstract E-PAS2010:4340.2, Pediatric Academic Societies (PAS) Annual Meeting, Vancouver, BC, Canada. “The Broad Spectrum Inhibitory Activity of a <i>Streptococcus pneumoniae</i> Strain is Mediated by Bacteriocins Which Can Be Purified.” | 2010 |
| | (not accepted) Clinical Case, ID Images Session of the Pediatric Fellows’ Day, Infectious Diseases Society of America (IDSA) Annual Meeting co-sponsored by Pediatric Infectious Diseases Society (PIDS). | 2010 |
| | Plenary Session Oral Presentation , Fellow Award in Basic Science Research, Annual Pediatric Research Symposium, UMHS. “Survival of the Fittest: The Broad Spectrum Inhibitory Activity of a <i>Streptococcus pneumoniae</i> Strain is Mediated by Bacteriocins Which Can Be Purified.” | 2009 |
| | (not accepted) Clinical Case, ID Images Session of the Pediatric Fellows’ Day, Infectious Diseases Society of America (IDSA) Annual Meeting, co-sponsored by PIDS. | 2009 |
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| Licensures & Certifications | Certificate of Achievement , Intro to Software Engineering Course by CodePath.org | 2021 |
| | Certificate of Leadership , Android Development Course for UTA by CodePath.org | 2021 |
| | Certificate of Achievement , Tech Fellow Training for UTA by CodePath.org | 2020 |
| | Certificate of Achievement , Remote Android Development Course by CodePath.org | 2020 |
| | Certificate , Python Basics by University of Michigan on Coursera (viewable on LinkedIn) | 2019 |
| | Certificate , Information Systems Security Professionals, NSTISSI No. 4011 and System Administrators, CNSSI No. 4013E (Granted by Dr. Jiang Ming, UTA) | 2019 |
| | Board Certification , General Pediatrics, Diplomate of the American Board of Pediatrics, exp. 2015 | 2008 |
| Selected Teaching Experiences | Physician Identifier , National Provider Identifier, #1871711721 | 2007 |
| | Tech Fellow , CodePath’s Professional Android Course at UTA | 1 - 5/2021 |
| | -introduced CodePath, a non-profit tech education organization, to UTA and vice versa. -recruited a colleague Tech Fellow, with whom facilitated the learning of professional Android app development for college graduate and undergraduate students. -with 40 students enrolled, course exceeded minimum enrollment requirements by 60% -next long semester, number of free CodePath courses offered at UTA doubled | |
| | Graduate Teaching Assistant ; UTA, CSE Dept.. For each course, assisted a Professor in - Theoretical Concepts in Computer Science and Engineering --Graded deliverables, proctored exams, held office hours, communicated complex | 8 - 12/2019 |

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| | concepts in understandable terms to answer questions for 63 students. | |
| | - Theoretical Concepts in CSE. Performed above for 63 students | 7 - 8/2019 |
| | - Discrete Structures. Performed above for 45 students. | 1 - 5/2019 |
| | - Theoretical Concepts in CSE. Performed above for 64 students. | 8 - 12/2018 |
| | International Talk , Taught Neonatal Resuscitation Program (NRP) to a class of physicians, physician assistants, nurses, nursing aides, and operating room staff at Karolyn Kempton Memorial Christian Hospital/L'Hopital Baptiste Biblique, Tsiko, Togo during a pediatric residency elective. | 3/2008 |
| | International Talk , Taught NRP to a class of nursing students at Karolyn Kempton Memorial Christian Hospital/ L'Hopital Baptiste Biblique, Tsiko, Togo during a pediatric elective. | 3/2008 |
| | Peabody Gross Anatomy Fellow , UASOM. Facilitated Gross Anatomy learning for a group of four MS-1 students who shared a cadaver. | 8 - 12/2002 |
| | Teaching Assistant , Gross Anatomy for Optometry students. Facilitated Gross Anatomy learning for a group of five second-year Optometry students who shared a cadaver. | 11 - 12/2001 |
| | Math Clinic Tutor , Dept. of Mathematics, UTA. Taught other tutors Elementary Statistics. Tutored college students in Pre-Algebra, Algebra, Trigonometry, Elementary Statistics, Calculus I, II, and III, and Business Mathematics. | 1/1998 - 5/2001 |
| Leadership | President , Golden Key International Honour Society (GKIHS), UTA -Led Chapter along with officers and Advisors from previous year's Silver Chapter Award to a higher Gold Chapter Award measuring how well Chapter met international society standards. -Conducted detailed extensive group officer and one-on-one President with President-Elect transition meetings as investment into continuity of Chapter success. -Contributed via transition groundwork to success of Chapter. In year succeeding my tenure, new President led Chapter along with officers and Advisors to a higher Key Chapter Award. | 2017 - 2018 |
| | Webmaster , Tau Beta Pi, the Engineering Honor Society, Eta Chapter, UTA -Maintained Chapter website after determining protocol to access site maintenance. -Prepared written report for Chapter for protocol to access website's maintenance. -Held transition meeting with incoming Webmaster. | 2017 - 2018 |
| | Programs Chair , National Society of Black Engineers (NSBE), UTA -Originated and implemented a point system for UTA NSBE to reward members for participating in activities that will contribute to their personal development and success as Engineering students. -Originated and implemented a two-part mentoring system, firstly for students to | 2017 - 2018 |

participate as mentors and/or mentees among ourselves and secondly for students to participate as mentees to be mentored by experienced professionals.
 -Originated and promoted novel idea to NSBE Regional Programs Chair who approved of Chapter representation at 2017 American Heart Association Tarrant County Heart Walk, Fort Worth, TX, Sept. 9, 2017.
 -Planned and organized event and a collaboration with GKIHS to have its Chapter representation at this Heart Walk.

Senator, NSBE, UTA

Spr. 2017

-Voted on national and regional ballots for local UTA Chapter at NSBE National Convention.

Sales Associate, ROSS Stores #0249

11/2012 - 7/2017

Front End Supervisor, Supervised Front End of store where multiple Sales Associates checked out customers.

Markdown Team Lead, Led Markdown team. Trained over 5 new team members

Fitting Room Associate (FTA) Trainer, Trained over 5 new FTAs on correct rack arrangement and other Fitting Room procedures.

Stock Room Associate (SRA) Trainer, Trained over 5 new SRAs on running hummers and blue bins to place processed merchandise correctly on sales floor.

Stock Room Associate, As team player processed merchandise arrivals in preparation for display on sales floor. Fitting Room Associate, Checked customers in and out of the Fitting Room.

Sales Associate, Provided customer service to customers in purchases and returns with computer-generated performance evaluations in top category of 90% or better frequently.

Markdown Associate, Processed price reductions, price adjustments, re-ticketing of items, and merchandise organization with computer-generated performance reports in top category of 90% or better ~ 99% of the time.

Selected Outreach & Volunteer Experiences

Volunteer Tutor & Academic Mentor, Boys and Girls Clubs of Arlington, Main Branch, now Boys and Girls Clubs of Greater Tarrant County
 -Empowered children of whom at least 90% were from demographics underrepresented STEM during Power Hour, a homework help program to assist community children, to complete their homework and increase their skills and confidence.

2016 - 2019

Session Leader and Presenter, Engineering Saturday, UTA

4/14/2018

-Designed and presented 3 sessions "Building Tall, Edible Towers" as a NSBE representative for a STEM outreach program held by the UTA College of Engineering in which elementary through high school students engaged in hands-on activities designed to be fun and intriguing. Delivered session assisted by four NSBE volunteers.

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| | Honors College Advocate , Honors College, UTA | 2016 - 2018 |
| | -Spoke to audiences of prospective and admitted UTA students and their parents/guardians about my experiences as a member of the Honors College and answered their questions. | |
| | Volunteer , 4-H | 2017 - 2018 |
| | Volunteer , Society of Hispanic Professional Engineers (SHPE) | 8/17/2016 |
| | Freshman/International Orientation, UTA | |
| | Volunteer , Center for Mexican American Studies Technology | 5/21/2016 |
| | Center Workshop Science Day with SHPE involvement, UTA | |
| | Volunteer , Engineering Saturday with SHPE, UTA | 4/9/2016 |
| | Volunteer , Engineering Saturday, UTA | 9/20/2015 |
| | Volunteer , Alzheimer's Association, Annual Walk with UTA Honors College | 10/3/2016 |
| | Volunteer , American Heart Association | 2015 - 2017 |
| | Volunteer Physician , Samaritan's Purse, World Medical Mission | 7/2011 - 1/2012 |
| | -Volunteered at Mukinge Hospital, Kasempa, Zambia | |
| | -Diagnosed and cared for patients including newborns | |
| Professional Affiliations | ACM , Association for Computing Machinery | 2020 - 9/2021, '17 - '18, 2014 - '16 |
| | SWE , Society of Women Engineers | 2014 - 6/2021 |
| | NSBE , National Society of Black Engineers | 2014 - present |
| | SHPE , Society of Hispanic Professional Engineers | 2019 - 6/2021, 2015 - '18 |
| Selected Conferences | Grace Hopper Celebration , virtual | 9/2021 |
| | Texas Health Informatics Alliance Conference , virtual | 9/2021 |
| | ACM Richard Tapia Celebration of Diversity in Computing , virtual | 9/2020 |
| | Grace Hopper Celebration , virtual | 9/2020 |
| | International Conference on Machine Learning (ICML) , virtual | 7/2020 |
| | Computing Research Association CRA-WP Grad Cohort for URMD , Austin, TX | 3/2020 |
| | UTA Student Computing Research Festival (SCRF) Lightning Talk presenter and Demo presenter , Arlington, TX | 2/2020 |
| | ACM Richard Tapia Celebration of Diversity in Computing , "Using Motion Planning to Study Ligand Binding" poster presenter, Boston, MA | 2/2015 |
| | National Conference on Undergraduate Research (NCUR) , "A Dynamic Faceted Search Interface for PubMed" poster presenter, Lexington, KY | 4/2014 |
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