

Jason S. Lucas

PH.D. CANDIDATE · DATA SCIENCE & AI, HEALTH, & PUBLIC HEALTH INFORMATICS SPECIALIST

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"Fifth-year PhD candidate bridging the digital language divide through AI research spanning 70+ languages. I develop robust, multilingual systems that prioritize information integrity, social good, and safe AI, democratizing state-of-the-art capabilities for underserved linguistic communities worldwide. My work addresses critical challenges in combating harmful content, advancing human-AI interaction, and mitigating security vulnerabilities, transforming AI from a communication barrier into a competitive advantage for global innovation."

SUMMARY

- Fifth-year PhD candidate and AI/ML researcher with 10+ years of interdisciplinary expertise spanning health informatics, medical education, and advanced NLP systems. Leading low-resource multilingual research at Penn State's PIKE Lab under Dr. Dongwon Lee, specializing in information integrity, safe and ethical AI, and combating harmful content across 70+ languages and modalities.
- Published 6 top-tier papers (200+ citations) at premier venues (EMNLP, ACL, NAACL, COLING, IEEE) advancing multilingual language understanding, generation, adversarial machine learning, transfer learning, in-context learning, RAG and Agentic AI workflows. Research bridges academic innovation with real-world impact through industry collaborations at Lawrence Livermore National Lab, Interactions LLC, and Coalfire.
- NSF LinDiv Fellow advancing human language technologies through transdisciplinary approaches. Drawing from Grenadian background and knowledge of Creole languages, I bring a global perspective to democratizing AI capabilities for underserved linguistic communities, transforming the digital language divide into opportunities for innovation and inclusion.
- Proven technical leader mentoring 5+ research interns and teaching Applied Generative AI courses. Expert in developing end-to-end AI solutions using PyTorch, HuggingFace, vLLM, and cloud platforms, with demonstrated success in combating evolving security threats and enhancing global AI accessibility.

EDUCATION

Ph.D. in Informatics – DATA SCIENCE AND AI

PENNSYLVANIA STATE UNIVERSITY

- Thesis: Advancing low-resource Multilingual NLP Approaches in the Era of Artificial Intelligence
- Advisor: Dr. Dongwon Lee
- GPA: 3.91

University Park, PA

Aug. 2021 - May 2026[Expected]

MPH – EPIDEMIOLOGY

ST. GEORGE'S UNIVERSITY

- Capstone: Effects of Self-Care Apps in Prediabetics in Grenada
- Advisor: Dr. Emanuel Keku
- GPA: 3.83

St. George's, GD

Jan. 2018 - Aug. 2020

M.Sc. in Computer Information Systems – HEALTH INFORMATICS

BOSTON UNIVERSITY

- Capstone: Advancing Health Information Systems(EHR) in Low-Middle Income Countries
- Advisor: Dr. Vladimir Brusic
- GPA: 3.64

Boston, MA

Jan. 2012 - Sep. 2014

B.Sc. in Information Technology – CUM LAUDE

ST. GEORGE'S UNIVERSITY

- Information Systems Project: Azure Medical Clinic Web Application
- Advisor: Dr. Michael Roberts
- GPA: 3.64

St. George's, GD

Jan. 2007 - May 2010

A.S. in Information Technology

T.A. MARRYSHOW COMMUNITY COLLEGE

- IT Project: Flight reservation website
- GPA: 3.33

St. George's, GD

Aug. 2005 - Jul. 2007

- Train in breadth and depths in linguistics and language sciences, e.g., generative syntax, sociolinguistics
- Transdisciplinary Research Project: BABSANT Speech Pathology AI-Platform (Streamlit)
- Internship Research Project: Conversation AI: Chain-of-interaction for intelligent Virtual Systems
- Advisor: Dr. Janet Van Hell

SKILLS

Programming Languages	Python, JAVA, SQL, LaTeX, HTML5, CSS, PHP, R, C++
Machine Learning	PyTorch, Tensorflow, Transformers, Adapter-Transformers, adapterHub, Pandas, Numpy, Scikit-learn, vLLM
Data Scrapping	Twitter API, Selenium, Tesseract
Platforms	VS Codes, Epi Info, GeoDa, PyCharm IDE, IntelliJ IDE, Google Cloud, Microsoft Azure, MS Office, Streamlit
Domain Expert	Health Informatics, Epidemiology, Artificial Intelligence Engineering, Data Science Engineering, HIS (EHR)
Transferable	Leadership, Presentation, Project Management, Training, Problem Solving, Time Management, Adaptability
Research	Critical Thinking, Data Analytics, Scientific Writing, Grant Writing, Collaboration, Independent Learning

INTEREST

Techniques	Transfer Learning (Full-FT & PEFT), In-context Learning, Prompt Engineering, Adversarial ML, Automatic Evaluation (AEM, LLMs)
Framework	PyTorch, Tensorflow, Transformers, Hugging Face, AdapterHub, Pandas, Numpy, Scikit-learn
Domain Areas	DeepFake, Disinformation, Conversational AI, Human Language Technology, Cybersecurity, Responsible AI

PUBLICATION

CONFERENCE PUBLICATIONS [191 CITATIONS]

8. [EMNLP'25] Jason Lucas, John Chen, Ali Al-Lawati, Mahjabin Nahar, Mahnoosh Mehrabani. **CHAIN-OF-INTERACTIONS: ITERATIVE ICL FRAMEWORK FOR ABSTRACTIVE TASK-ORIENTED DIALOGUE SUMMARIZATION OF CONVERSATIONAL AI INTERACTIONS**. In Findings of the Association for Computational Linguistics: EMNLP 2025. Association for Computational Linguistics, 2025.
7. [EMNLP'25] Ali Al-Lawati, Jason Lucas, Zhiwei Zhang, Prasenjit Mitra, Suhang Wang. **GRAPH-BASED MOLECULAR IN-CONTEXT LEARNING GROUNDED ON MORGAN FINGERPRINTS**. In Findings of the Association for Computational Linguistics: EMNLP 2025. Association for Computational Linguistics, 2025.
6. [NAACL'25] Ekaterina Artemova, Jason Lucas, Saranya Venkatraman, Jooyoung Lee, Sergei Tilga, Adaku Uchendu, Vladislav Mikhailov. **BEEMO: BENCHMARK OF EXPERT-EDITED MACHINE-GENERATED OUTPUTS**. In Proceedings of the 2025 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers), pages 6992–7018. Association for Computational Linguistics, 2025.
5. [COLING'25] Ali Al-Lawati, Jason Lucas, Prasenjit Mitra. **SEMANTIC CAPTIONING: BENCHMARK DATASET AND GRAPH-AWARE FEW-SHOT IN-CONTEXT LEARNING FOR SQL2TEXT**. In Proceedings of the 31st International Conference on Computational Linguistics, pages 8026–8042, Abu Dhabi, UAE. Association for Computational Linguistics, 2025.
4. [EMNLP'24] Dominik Macko, Robert Moro, Adaku Uchendu, Ivan Srba, Jason Lucas, Michiharu Yamashita, Nafis Irtiza Tripto, Dongwon Lee, Jakub Simko, Maria Bielikova. **AUTHORSHIP OBFUSCATION IN MULTILINGUAL MACHINE-GENERATED TEXT DETECTION**. In Findings of the Association for Computational Linguistics: EMNLP 2024, pages 13706–13724. Association for Computational Linguistics, 2024.
3. [EMNLP'23] Dominik Macko, Robert Moro, Adaku Uchendu, Jason Lucas, Michiharu Yamashita, Matúš Pikuliak, Ivan Srba, Thai Le, Dongwon Lee, Jakub Simko, Maria Bielikova. **MULTITUDE: LARGE-SCALE MULTILINGUAL MACHINE-GENERATED TEXT DETECTION BENCHMARK**. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP), pages 9960–9987, Singapore. Association for Computational Linguistics, 2023.
2. [EMNLP'23] Jason Lucas, Adaku Uchendu, Michiharu Yamashita, Jooyoung Lee, Shaurya Rohatgi, Dongwon Lee. **FIGHTING FIRE WITH FIRE: THE DUAL ROLE OF LLMs IN CRAFTING AND DETECTING ELUSIVE DISINFORMATION**. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP), pages 14279–14305, Singapore. Association for Computational Linguistics, 2023.
1. [ACL'22] Jason Lucas, Limeng Cui, Thai Le, Dongwon Lee. **DETECTING FALSE CLAIMS IN LOW-RESOURCE REGIONS: A CASE STUDY OF CARIBBEAN ISLANDS**. In Proceedings of the Workshop on Combating Online Hostile Posts in Regional Languages during Emergency Situations, pages 95–102, Dublin, Ireland. Association for Computational Linguistics (ACL), 2022.

JOURNAL PUBLICATIONS [13 CITATIONS]

3. [IEEE'26] Dominik Macko, Aashish Anantha Ramakrishnan, Jason Lucas, Robert Moro, Ivan Srba, Adaku Uchendu, Dongwon Lee. **BEYOND SPECULATION: MEASURING THE GROWING PRESENCE OF LLM-GENERATED TEXTS IN MULTILINGUAL DISINFORMATION**. IEEE Computer, 2026. (Accepted)
2. [IEEE'24] Jason Lucas, Maung Maung Barani, Tabar Maryam, McBride Keegan, Dongwon Lee. **THE LONGTAIL IMPACT OF GENERATIVE AI ON DISINFORMATION: HARMONIZING DICHOTOMOUS PERSPECTIVES**. IEEE Intelligent Systems, 2024.
1. [IEEE'24] Barani Maung Maung, Keegan McBride, Jason Lucas, Maryam Tabar, Dongwon Lee. **GENERATIVE AI DISPROPORTIONATELY HARMS LONG TAIL USERS**. IEEE Computer, Volume 57, Issue 11, 2024.

EXPERIENCE

RESEARCH EXPERIENCE

Lawrence Livermore National Lab

Livermore, CA

DSSI GRADUATE RESEARCH INTERNSHIP

May 2025 - Aug. 2025

- **Research Project:** Data Science Summer Institute (DSSI) Research
- **Description:** Conduct cutting-edge research in multilingual NLP, focusing on Large Language Models (LLMs), Large Reasoning Models (LRMs), and Multimodal Large Language Models (MLLMs). Research encompasses safe AI, scientific reasoning, mixture-of-agents frameworks, and advancing capabilities emphasizing low-resource multilingual settings and bridging agents. Develop novel approaches to enhance AI safety, reasoning capabilities, and multilingual performance.
- Supervisor: Brian Bartoldson, Bhavya Kaikhura
- Projects: Agentic AI, Scientific Reasoning, Multilingual LLM/LRM/MLLM

Interactions LLC

Remote

NLP RESEARCH INTERNSHIP

May 2024 - Aug. 2024

- **Research Project:** LinDiv Internship Research
- **Description:** Lead human-AI task-oriented dialogue summarization research using intelligent virtual assistant data. Developed an iterative in-context learning approach leveraging zero-shot prompt engineering and LLMs (proprietary and open-source) through extract-informative summarization, interactive refinement, and self-evaluation methods. Implemented few-shot information retrieval techniques and automatic evaluation metrics and conducted human studies.
- Supervisor: John Chen, Mahnoosh Mehrabani
- Projects: Conversational AI: Chain-of-Interactions

LinDiv Graduate Research Traineeship Program

Penn State University

NSF NRT FELLOWSHIP TRAINING

Aug. 2022 - Present

- **Research Project:** LinDiv Transdisciplinary Research
- **Description:** Lead technical and prototype development for an AI-powered platform supporting speech-language pathology. Research encompasses application development (Streamlit), prompt engineering, in-context learning, and LLMs (GPT-4o, Whisper). Conduct transdisciplinary research bridging linguistics, psychology, and AI to advance human language technologies for social good.
- Advisor: Janet Van Hell
- Projects: BABSANT AI Platform

PIKE Research Lab

Penn State University

GRADUATE RESEARCH ASSISTANT

Aug. 2021 - Present

- **Research Project:** SysFake, SocialGPT, FCFC
- **Description:** Lead research projects and collaborate with internal and international researchers. Research encompasses NLG, NLU, LLMs, transfer learning (fine-tuning), in-context learning, information retrieval (RAG), Agentic AI, adversarial ML, deep learning, and data scraping. Developed methods to detect deepfake text and human-AI disinformation. Developed techniques to bypass LLM safety guardrails, exploring LLMs to generate disinformation in multiple languages. Work encompasses model adaptation (Full FT & PEFT) and development for multilingual and cross-lingual transfer, emphasizing low-resource languages.
- Advisor: Dongwon Lee
- Projects: F3, Caribbean-Transfer, F3, BLUFF, GREENLAND

TEACHING EXPERIENCE

IST 597: Applied Generative AI

Penn State University

GRADUATE TEACHING ASSISTANT

Jan. 2025 - May 2025

- Teaching assistant for an advanced special topics course on Applied Generative AI
- Assisted professor with classroom management, teaching, and discussions
- Created assignments and quizzes, and ran practical labs on LLM applications and AI system development
- Graded assignments/exams and held office hours for student support
- Mentored students on prompt engineering, in-context learning, and generative AI workflows

IST 402: Posthuman Performance: Humans and AI in Action

Penn State University

GRADUATE TEACHING ASSISTANT

Jan. 2025 - May 2025

- Teaching assistant for an Emerging Issues and Technologies course that focuses on Human, Robots, and AI
- Assisted professor with classroom management and teaching, discussion and labs
- Graded assignments/exams and held office hours for student support
- Supervised interns and led projects: [Blender: Spot Robot Simulation](#), [Origins Lab: Collaborative Robotic Arm](#)

IST 210: Organization of Data

Penn State University

GRADUATE TEACHING ASSISTANT

Jan. 2022 - May 2022

- Teaching assistant for database course teaching fundamental concepts
- Assisted students in using Microsoft SQL, conceptualizing concepts, and practical skills
- Graded assignments/exams and held office hours for student support

IST 140: Introduction to Application Development

GRADUATE TEACHING ASSISTANT

- Teaching assistant for an introductory course in programming principles using Java
- Assisted students in using IntelliJ and understanding programming concepts
- Graded assignments/exams and held office hours for student support

Penn State University

Aug. 2021 - Dec. 2021

BPM II: Basic Principles of Medicine

INSTRUCTOR

- Served as a lecturer for Introduction to Biomedical Informatics
- Developed material, assessment, and exam questions
- Conducted student office hours

St. George's University

Jan. 2021 - Jun. 2021

PUBH 302: Public Health Informatics

INSTRUCTOR

- Served as a lecturer for Introduction to Health Informatics
- Developed exam questions and conducted office hours for student support

St. George's University

Aug. 2020 - Jun. 2021

COMP 420: Database Systems

ADJUNCT ASSISTANT PROFESSOR

- Served as a lecturer for an advanced database system course
- Developed exam questions and course material
- Lectured and conducted practical lab sessions
- Graded assignments/exams and provided feedback
- Conducted office hours for student support

St. George's University

Aug. 2010 - Dec. 2011

Information Technology

CERTIFIED TEACHER I

- Taught Information Technology at The Anglican High School
- Developed exam questions and class materials
- Managed IT lab and conducted practical lab sessions
- Graded assignments/exams and provided feedback
- Took students' attendance and managed a class cohort

Ministry of Education, Gov. of
Grenada

Aug. 2010 - Jul. 2011

COMP 420: Database Systems

FACILITATOR

- Undergrad tutoring and small group facilitation

St. George's University

Aug. 2009 - May 2010

PROFESSIONAL EXPERIENCE

Penn State University

GRADUATE RESEARCH/TEACHING ASSISTANT. **ASSISTANTSHIP**

- Develop novel research directions and lead projects.
- Assist with course management and teaching responsibilities.
- Develop novel NLP and machine learning approaches.
- Collaborate with national and international research leaders/institutions.
- Mentor research interns.

University Park, PA

Aug. 2021 - Current

Lawrence Livermore National Lab

DSSI GRADUATE RESEARCH INTERN. **INTERNSHIP**

- Conduct cutting-edge research in multilingual NLP focusing on LLMs, LRMs, and MLLMs
- Develop novel approaches for safe AI, scientific reasoning, and mixture-of-agents frameworks
- Advance capabilities for low-resource multilingual settings and bridging agents
- Collaborate with national lab researchers on AI safety and reasoning capabilities
- Enhance multilingual performance and robustness across diverse language families
- Conduct research presentations and contribute to critical national security applications

Livermore, CA

May 2025 - Aug. 2025

Interactions LLC

NLP INTERN. **INTERNSHIP**

- Lead research directions and projects.
- Invent novel NLP and machine learning approaches.
- Leverage LLMs' advanced capabilities, e.g., In-Context learning
- Collaborate with industry experts and academic researchers.
- Garner's in-depth understanding of conversational AI, intelligent virtual assistant technology, and industry.
- Conduct research presentations and contribute to innovative ideas and projects

New Providence, NJ

May 2024 - July 2024

Coalfire

CYBERSECURITY CONSULTANT. **INTERNSHIP**

- Learn PCI SSC reporting essentials
- Participate in client-facing security assessments.
- Document PCI DSS compliance findings
- Collaborate on PCI process improvements.
- Project: Use Wireshark & DevTools for data encryption checks.

Greenwood Village, CO

May. 2023 - August. 2023

St. George's University

INSTRUCTOR/DEMONSTRATOR/ADJUNCT PROFESSOR. **FACULTY**

- Headed B-line division and managed teams across the Clinical Skills Department
- Administered B-Line SimCapture platform across the School of Medicine
- Developed training material and trained users across clinical medicine education
- Mentored colleagues and interns
- Taught undergraduate and graduate-level courses in IT, Medicine, and Public Health

St. George's, GD

Dec. 2011 - July. 2021

Ministry of Education, Government of Grenada

CERTIFIED TEACHER I. **INSTRUCTOR**

- Assist with troubleshooting and resolving IT issues
- Support software and hardware installations
- Document IT processes and incident reports
- Collaborate with the IT team on projects and tasks

St. George's, Grenada

Aug. 2010 - Jul 2011

LIME (Cable & Wireless Communications)

IT INTERN. **INTERNSHIP**

- Assist with troubleshooting and resolving IT issues
- Support software and hardware installations
- Document IT processes and incident reports
- Collaborate with the IT team on projects and tasks

Greenwood, CO

Jan. 2010 - May 2010

Information Systems Projects

St. George's University

TELEMEDICINE & VIRTUAL HOSPITAL TEACHING PROJECT

- Led team to gather functional requirements and make strategic recommendations
- Execute the appropriation, piloting, testing, and implementation of telemedicine technology
- Provided comprehensive training to clinical educators and skillfully administered the go-live, resulting in a successful outcome.

St. George's, GD

Sept. 2020

St. George's University

ONLINE CLINICAL EVALUATION EXERCISE PROJECT

- Spearheaded the creating, testing, piloting, training, and executing the online objective structured clinical examination
- Led team to re-engineer OSCE exam-flow and integrated with in-house platforms, done nowhere else in the world
- Prevented organization disruptions, aided smooth online transition that saved St. George's University an estimated 2M+ dollars

St. George's, GD

Mar. 2019

St. George's University

OSCE MANAGEMENT IMPROVEMENT PROJECT

- Led OMI requirements gathering for students, faculty, and standardized patients
- Oversaw testing and implementation of curated technologies for 32 additional clinical simulation rooms
- Supported medical education delivery for 4000+ students
- Delivered successful project within a tight timeframe while ensuring optimal outcome

St. George's, GD

Aug. 2017

St. George's University

B-LINE EXPANSION PHASE I PROJEC

- Led the outfitting 8 additional Clinical Examination rooms with clinical equipment, B-Line Medical equipment, and other educational supporting technologies

St. George's, GD

Aug. 2014

Academic Achievements Awards & Honors

FELLOWSHIPS & SCHOLARSHIPS

2025	RIT FFCEP , Rochester Institute of Technology Future Faculty Career Exploration Scholarship	Rochester, NY
2025	CRA-WP IDEALS , Computer Research Association Grad Cohort for IDEAL Scholarship	Denver, CO
2024	THRIVE , THRIVE BLK Men in Tech. Conference Scholarship	Fort Lauderdale, FL
2024	Richard Tapia , ACM Richard Tapia Conference Scholarship	San Diego, CA
2024	CRA-WP IDEALS , Computer Research Association Grad Cohort for IDEAL Scholarship	Minneapolis, MN
2023	NSF Research Traineeship , 2023 NSF NRT Research Research Traineeship Scholarship	Tempe, AZ
2023	CRA-WP IDEALS , Computer Research Association Grad Cohort for IDEAL Scholarship	Honolulu, HI
2022	NSF LINDIV Fellowship , Linguistic Diversity Across the Lifespan Graduate Fellowship	University Park, PA
2022	ICML & Black in AI , International Conference on Machine Learning Diversity & Inclusion Scholarship	Baltimore, MD
2022	ACL Conference , Association for Computational Linguistics Diversity & Inclusion Scholarship	Dublin, IRL
2021	PSU FEGR Fellowship , Penn State University Funds for Excellence in Graduate Recruitment Fellowship	University Park, PA
2018	SGU Graduate Fellowship , St. George's University Graduate Faculty Fellowship	St. George's, GD
2007	SGU Student Scholarship , St. George's University Undergraduate Student Scholarship	St. George's, GD

AWARDS

2024	Leadership Award , Penn State Pan-African Professional Alliance (PAN-APA) Leadership	University Park, US
2018	MPH Award , Chancellor's List for Academic Excellence	St. George's, GD
2012	Job Award , Excellence and Dedication to Objective Structured Clinical Examination	St. George's, GD
2013	B.Sc. Award , Dean's List for Academic Excellence	St. George's, GD
2013	B.Sc. Award , Chancellor's List for Academic Excellence	St. George's, GD

Presentations and Invited Talks

Munich NLP	Munich, Germany
INVITED TALK	2025
<ul style="list-style-type: none"> Presented Beemo: Benchmark of Expert-edited Machine-generated Outputs, addressing deepfake text detection in multi-author scenarios where experts refine LLM responses for natural flow and factual correctness Demonstrated challenges in detecting expert-edited machine-generated texts, benchmarking 33 detector configurations across 6.5k human-written, LLM-generated, and expert-edited texts spanning creative writing to summarization tasks 	
Penn State, College of Information Sciences & Technology	United States
INVITED PANELIST <PENN STATE STARTUP WEEK: BUSINESS BROKER SECRETS>	Mar. 2025
<ul style="list-style-type: none"> Discussion panelist Deepfake for social good and its application for patients with aphasia 	
Penn State, College of Information Sciences & Technology	United States
INVITED PANELIST <RESEARCH IN INFORMATION SCIENCES AND TECHNOLOGY PANEL>	Jan. 2025
<ul style="list-style-type: none"> Discuss my research experience in college, lab, and as a published author. Discuss the problem landscape, cutting-edge research, and future research direction for combating harmful text 	
Cohere for AI	United States
INVITED TALK <COHERE FOR AI GUEST SPEAKER>	May. 2024
<ul style="list-style-type: none"> Present research on advancing low-resource multilingual approaches in the era of artificial intelligence Discuss the problem landscape, cutting-edge research, and future research direction for disinformation detection 	
St. George's University, Department of Computers and Technology	St. George's, Grenada
INVITED TALK AND PANELIST ON <FORUM ON OPPORTUNITIES IN EMERGING TECHNOLOGY>	Jan. 2024
<ul style="list-style-type: none"> Expose students to emerging technologies currently being used or explored across different fields. Discuss the applications and implications of some of these technologies. 	
EMNLP 2023, Conference on Empirical Methods in Natural Language Processing	Sentosa, Singapore
MAIN CONFERENCE PROCEEDINGS PRESENTATION FOR <2023 EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING>	Dec. 2023
<ul style="list-style-type: none"> Presented the Paper: Fighting Fire with Fire: The Dual Role of LLMs in Crafting and Detecting Elusive Disinformation. Discussed the dual capacity of LLMs for offensive misuse and defensive detection of disinformation. 	
St. George's University, Department of Computers and Technology	St. George's, Grenada
INVITED TALK ON <ARTIFICIAL INTELLIGENCE AND LATEST AI RESEARCH>	Nov. 2023
<ul style="list-style-type: none"> Presented on the history of AI to present and latest in AI research Discussed my latest research, Fighting Fire with Fire, highlighting the dual capacity of LLMs for disinformation misuse and detection. 	
National Science Foundation Annual Meeting 2023	Tempe, AZ
POSTER PRESENTATION FOR <NATIONAL SCIENCE FOUNDATION RESEARCH TRAINEESHIP>	Oct. 2023
<ul style="list-style-type: none"> Delivered a poster presentation on integrating linguistic, psychological, and AI approaches for native accent variant processing on human language technology 	
National AI Institute for Exceptional Education	University Park, PA
INVITED TALK FOR <NATIONAL SCIENCE FOUNDATION AND THE INSTITUTE OF EDUCATION SCIENCES AI RESEARCH INSTITUTES>	Sep. 2023
<ul style="list-style-type: none"> Delivered a talk on AI Transforming Education for Children with Speech and Language Pathologies 	

Pan-APA 6th Annual Conference

CONFERENCE PRESENTATION FOR <BUILDING A RESILIENT FUTURE FOR AFRICA IN THE POST COVID WORLDe>

- Introduced the first case study on detecting false claims in the Caribbean islands, a low-resource language region.
- Discuss the challenges and future research directions for combating multilingual long-tail fake news.

University Park, PA

Apr. 2023

Computing Research Association Grad Cohort Workshop for IDEALS Skills

LIGHTENING TALK FOR <2023 GRAD COHORT FOR IDEALS LIGHTNING TALK>

- Delivered a lightning talk on Detecting False Claims in Low-Resource Regions: A Case Study of Caribbean Islands

Honolulu, HI

Mar. 2023

ACL 2022, 60th Annual Meeting of the Association for Computational Linguistics

WORKSHOP PRESENTATION <COMBATING ONLINE HOSTILE POSTS IN REGIONAL LANGUAGES DURING EMERGENCY SITUATION>

- Presented the Paper: Detecting False Claims in Low-Resource Regions: A Case Study of Caribbean Islands
- Discussed future work on low-resource language processing to Combat COVID-19 Related Online Hostile Content

Dublin, IRL

May. 2022

Service and Leadership

12th Mid-Atlantic Student Colloquium on Speech, Language & Learning (MASC-SLL)

ORGANIZING COMMITTEE MEMBER

- Assist Conference Chairs with abstracts and paper submission
- Participate in the presentation, abstract, and manuscript review processes
- Assess with organization and logistics of conference

University Park, PA

August. 2025 - PRESENT

Academic Conference Reviewer

CONFERENCE REVIEWER

- 2024 ACL conference review

University Park, US

Jan. 2024 - 2025

Workshop on Detecting AI-Generated Content at COLING 2025

PROGRAM COMMITTEE MEMBER

- Assist Conference Chairs in soliciting abstracts
- Participate in the presentation, abstract, and manuscript review processes
- Serve as Session Chair as requested by Conference Chairs

Abu Dhabi, UAE

August. 2024 - PRESENT

College of Information Science and Technology Committee

GRADUATE STUDENT BILL OF RIGHTS COMMITTEE

- Meet with keystroke holders
- Develop students' bill of rights

University Park, PA

May 2024 - August 2024

Empirical Methods in Natural Language Processing

EMNLP'23 CONFERENCE VOLUNTEER

- Provide technical support for the main conference
- Poster presentations support and coordination
- Participant registration and check-in

University Park, PA

Aug. 2023

Penn State Pan-African Professional Alliance

IT OFFICER

- Set IT goals and lead initiatives
- Manage organization website
- Direct IT operations for organization's events and activities
- Support organization's president and executive members

University Park, PA

Aug. 2023 - PRESENT

ENVISION: STEM Career Day Supporting Young Women

INSTRUCTOR

- Led LinDiv outreach fellowship activities
- Prepare presentation material and organize training

University Park, PA

Nov. 2022 - Aug. 2023

Graduate Student Association in Information Sciences & Technology

PRESIDENT

- Led an executive team of 5 members swerving 200+ graduate students at Penn State
- Revised organization's mission and vision towards strategic change
- Conducted mass mixed-method student survey to assess needs, gaps, and college climate
- Analyze data using thematic analysis and descriptive statistics, and generate students' feedback report
- Advocated for students by presenting findings to the college deans, program directors, and administrative staff
- Successfully effected change in student academics, engagement, and experience for 200+ students

University Park, PA

Nov. 2022 - Aug. 2023

NSF LINDIV Graduate Research Training Program

OUTREACH COORDINATOR

- Coordinated outreach for the NSF LINDIV Graduate research training program 2022
- Led a team of 7 to execute a STEM career day workshop, ENVISION, supporting young women

University Park, PA

Aug. 2022 - Jan. 2023

Grenada Red Cross

IT OFFICER

- Led information technology initiatives
- Mentor and supervise interns
- Oversee web development
- Support the president

St. George's, GD

Jul. 2020 - Jun. 2021

Fit For Life: Youth Development Program

DIRECTOR AND CO-FOUNDER

- Partnered with Fit For Life to develop a free youth development program for marginalized youths
- Mentored youths ages 7-27 to develop leadership, social and professional skills
- Trained next-generation dancers and youth leaders

St. George's, GD

Jan. 2010 - Jun. 2017

Mentorship

Human AI in Action Research - Dr. Betsy Campbell

IST UNDERGRADUATE STUDENTS

- Gracy Juanita Franco Prasanna - undergraduate - AI for Social Good using Deepfake Project
- Colby James Gleason - undergraduate - Image emotions and sentiment classifications Project
- Jain Pranav - undergraduate - Boston Dynamics Spot robot Simulation project
- Michael Wayes Charles - Undergraduate - Data Sensorium

University Park, PA

Jan. 2025 - PRESENT

PIKE Research Lab - Dr. Dongwon Lee

MILLENNIUM SCHOLAR

- Kendall Reed II - undergraduate - Multilingual NLP @ PIKE Research Lab
- Lia Carin Djaouga - undergraduate - Multilingual NLP @ PIKE Research Lab

University Park, PA

August. 2023 - PRESENT

Press Coverage

NEWS INTERVIEW

2024 **WXXI News**, <"Artificial Intelligence in Journalism: How is it Being used now? What's Coming Next?">

Rochester, NY

FEATURED ARTICLES

2025 **Penn State IST iConnect**, <"Leadership Examples in Tech Rarely Look Like Me">

University Park, PA

2025 **Penn State News**, <"Penn State Connections Lead Doctoral Student to Interdisciplinary College of IST">

University Park, PA

References

Ph.D Advisor - Dongwon Lee, Ph.D., The Pennsylvania State University

Phone: +1(814) 865-0687

Email: dongwon@psu.edu

Profile: <https://pike.psu.edu/projects.html>

Ph.D Mentor - Adaku Uchendu, Ph.D., MIT Linchon Lab

Phone: +1(301) 326-8363

Email: adaku.uchendu@ll.mit.edu

Profile: <https://adauchendu.github.io/publications/>

Undergrad Dean and Mentor - Theodore M. Hollis, Ph.D., Professor Emeritus, St. George's University

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