

# Jason S. Lucas

 $\mathsf{Ph.D}\ \mathsf{Student}\ \cdot\ \mathsf{Data}\ \mathsf{Science}\ \&\ \mathsf{Al}, \mathsf{Health}, \&\ \mathsf{Public}\ \mathsf{Health}\ \mathsf{Informatics}\ \mathsf{Specialist}$ 

"Using artificial intelligence to solve leading problems at the intersection of responsible AI and the digital language divide, with implications for democratic processes, public health, cybersecurity, social good, stability, and integrity. I embody the ever-expanding concept of what it means to be human to drive the greatest 21st-century innovations."

## SUMMARY\_

- AI & Data Science Researcher with 10+ years of interdisciplinary expertise in health informatics and medical education.
- Leading low-resource multilingual NLP research at Penn State's PIKE Lab, focusing on combating disinformation, deepfake, and crosslingual AI systems vulnerabilities.
- NSF LinDiV Fellow advancing human language technologies through transdisciplinary approaches. Published impactful computational and human study research (110+ citations) at top conferences (EMNLP, ACL, NAACL, COLING, IEEE) specializing in multilingual language understanding, generation, model adaptation, in-context learning, information retrieval, adversarial machine learning, and robust AI systems.
- Proven track record of bridging technical innovation with practical applications through collaborations with industry partners and research institutions. Expert in developing end-to-end AI solutions using state-of-the-art frameworks.

## EDUCATION

Ph.D. in Informatics -DATA SCIENCE AND AI	University Park, PA
Pennsylvania State University	Aug. 2021 - 2025[ <b>Expected</b> ]
<ul> <li>Thesis: Advancing low-resource Multilingual NLP Approaches in the Ara of Artificial Intelligence</li> <li>Advisor: Dr. Dongwon Lee</li> <li>GPA: 3.91</li> </ul>	
MPH -EPIDEMIOLOGY	St. George's, GD
St. George's University	Jan. 2018 - Aug. 2020
<ul> <li>Capstone: Effects of Self-Care Apps in Prediabetics in Grenada</li> <li>Advisor: Dr. Emanual Keku</li> </ul>	
• GPACES AS M.Sc. in Computer Information Systems -HEALTH INFORMATICS	Roston MA
	lan 2012 - Sen 2014
<ul> <li>Capstone: Advancing Health Information Systems(EHR) in Low-Middle Income Countries</li> <li>Advisor: Dr. Vladimir Brusic</li> <li>GPA: 3.64</li> </ul>	501, 2012 - Stp. 2017
B.Sc. in Information Technology -CUM LAUDE	St. George's, GD
St. George's University	Jan. 2007 - May 2010
<ul><li>Information Systems Project: Azure Medical Clinic Web Application</li><li>Advisor: Dr. Michael Roberts</li></ul>	
• GPA: 3.64	
A.S. in Information Technology	St. George's, GD
T.A. Marryshow Community College	Aug. 2005 - Jul. 2007
<ul><li>IT Project: Flight reservation website</li><li>GPA: 3.33</li></ul>	
Graduate Certificate – NSF NRT LINDIV GRADUATE RESEARCH TRANEESHIP	University Park, PA
Pennsylvania State University	Aug. 2022 - Aug. 2024
<ul> <li>Train in breadth and depths in linguistics and language sciences, e.g., generative syntax, sociolinguistics</li> <li>Transdisciplinary Research Project: BAbSANT Speech Pathology AI-Platform (Streamlit)</li> <li>Internship Research Project: Conversation AI: Chain-of-interaction for intelligent Virtual Systems</li> </ul>	

Advisor: Dr. Janet Van Hell

# SKILLS\_\_\_\_\_

Programming LanguagesPython, JAVA, SQL, LaTeX, HTML5, CSS, PHP, R, C++Machine Learning ToolsPyTorch, Tensorflow, Transformers, Adapter-Transformers, adapters, Pandas, Numpy, Scikit-learn,Data ScrappingTwitter API, Selenium, TesseractPlatformsVS Codes,Epi Info, GeoDa, PyCharm IDE, IntelliJ IDE, Google Cloud, Microsoft Azure, MS Office, StreamlitExpertHealth Informatics, Epidemiology, Artificial Intelligence Engineering, Data Science Engineering, HIS (EHR)Leadership, Presentation, Project Management, Training, Problem Solving, Time Management, AdaptabilityResearchCritical 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	DeekFake, Disinfromation, Conversational AI, Human Language Technology, Cybersecurity, Respsonsinle AI

## PUBLICATION .

8. **[NACL'25]** Ekaterina Artemova, **Jason Lucas**, Saranya Venkatraman, Jooyoung Lee, Sergei Tilga, Adaku Uchendu, Vladislav Mikhailov "**BEEMO: BENCHMARK OF EXPERT-EDITED MACHINE-GENERATED OUTPUTS**," *arXiv preprint*, October 2024. NACL Conference 2025 (*Accepted*)

7. [COLING'25] Ali Al-Lawati, Jason Lucas, Prasenjit Mitra SEMANTIC CAPTIONING: BENCHMARK DATASET AND GRAPH-AWARE FEW-SHOTIN-CONTEXT LEARNING FOR SQL2TEX. In Proceedings of the 31st International Conference on Computational Linguistics, pages 8026–8042, Abu Dhabi, UAE. Association for Computational Linguistics, 2025

6. **[IEEE'24] Jason Lucas**, Maung Maung Barani, Tabar Maryam, McBride Keegan, and Lee Dongwon. **The Longtail Impact of Generative Al on DISINFORMATION: HARMONIZING DICHOTOMOUS PERSPECTIVES**. IEEE Intelligent Systems, 2024.

5. **[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 2024 Findings of the Association for Computational Linguistics: EMNLP 2024, pages 13706–13724. Association for Computational Linguistics, 2024.

4. **[IEEE'24]** Barani Maung Maung, Keegan McBride, **Jason Lucas**, Maryam Tabar, Dongwon Lee. **Generative Al Disproportionately Harms LONG TAIL USERS**. IEEE Computer, Volume 57, Issue 11, November 2024.

3. **[EMNLP'23]** Dominik Macko, Robert Moro, Adaku Uchendu, **Jason Lucas**, Michiharu Yamashita, Matúš Pikuliak, Ivan Srba, Thai Le, Dongwon Lee, Jakub Simko, and Maria Bielikova. **MULTITUDE: Large-Scale MulTILINGUAL MACHINE-GENERATED TEXT DETECTION BENCHMARK**. Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP). Singapore. Association for Computational Linguistics, 2023.

2. **[EMNLP'23] Jason Lucas**, Adaku Uchendu, Michiharu Yamashita, Jooyoung Lee, Shaurya Rohatgi, and Dongwon Lee. **FIGHTING FIRE WITH FIRE: THE DUAL ROLE OF LLMS IN CRAFTING AND DETECTING ELUSIVE DISINFORMATION**. Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP). Singapore. Association for Computational Linguistics, 2023.

1. **[ACL'22] Jason Lucas**, Limeng Cui, Thai Le, and 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.

## Preprint.

1. [arXiv'25 A. Al-Lawati, Jason Lucas, Z. Zhang, P. Mitra, S. Wang, Graph-based Molecular In-context Learning Grounded on Morgan Fingerprints, February 2024, arXiv preprint arXiv:2502.05414 (Under Review)

## Manuscript.

3. [Manuscript '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 (Under Review)

2. [Manuscript'25] Jason Lucas, ... GREENLAND: MULTILINGUAL ENCODER DECODER TRANSFER LEARNING FOR MULTI AND CROSS-LINGUAL DISIN-FORMATION DETECTION: A COMPREHENSIVE INVESTIGATION (Submitting to 2025 Conference)

1. [Manuscript '25] A. Al-Lawati, Jason Lucas, ... UNSUPERVISED SELF-ICL: LLMS DO NOT NEED DEMONSTRATION LABELS. (Submitting to 2025 Conference)

## Research Experience

### Interactions LLC

NLP INTERNSHIP

- Research Project: LinDiv Internship Research
- Description: I lead human-AI task-oriented dialogue summarization research using intelligent virtual assistant data. Develop an iterative incontext 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

### NSF NRT Fellowship Training

- Research Project: LinDiv Transdisciplinary Research
- **Description**: Led technical and prototype development. Develop an AI-powered platform to support speech-language pathology. My research encompasses application development (Streamlit), Prompt Engineering, In-context learning and LLMs (GPT-40, Whisper)
- Advisor: Janet Van Hell
- Projects: : BAbSANT AI Platform

### **PIKE Research Lab.**

GRADUATE RESEARCH ASSISTANT

- Research Project: SysFake, SocialGPT, FCFC
- Description: I lead research projects and collaborate with internal and international researchers. My research encompasses NLG, NLU, LLM, Transfer Learning (fine-tuning), In-context Learning, information retrieval (RAG), Adversarial ML, DL, and Data Scrapping. I developed a method to detect deepfake text and human-AI disinformation. I developed techniques to bypass LLM safety guardrails, exploring LLMs to generate disinformation in multiple languages. My work encompasses model adaptation (Full FT & PEFT) and development for multilingual and cross-lingual transfer, emphasizing low-resource languages.
- Advisor: Dongwon Lee
- Projects: : C-Transfer, F3, GREENLAND

# **Teaching Experience**

IST 402: Emerging Issues and Technologies	Penn State University
Graduate Teaching Assistant	Jan. 2025 - May.
<ul> <li>Teaching assistant for Posthuman Performance course: Humans and AI in Action.</li> <li>Assisted professor with classroom management and assist with teaching, discussion and labs</li> <li>Grade assignments/exams and hold office hours for student support</li> <li>Supervise interns and lead projects: BLENDER: SPOT ROBOT SIMULATION, ORIGINS LAB: COLLABORATIVE ROBOTIC ARM</li> </ul>	
IST 210: Organization of Data	Penn State University
Graduate Teaching Assistant	Jan. 2022 - May
<ul> <li>Teaching assistant for database course teaching fundamental concepts</li> <li>Assisted students in using Microsoft SQL, conceptualizing concepts, and practical skills</li> <li>Graded assignments/exams and held office hours for student support</li> </ul>	
IST 140: Introduction to Application Development	Penn State University
Graduate Teaching Assistant	Aug. 2021 - Dec.
<ul> <li>Teaching assistant for an introductory course in programming principles using Java</li> <li>Assisted students in using IntelliJ and understanding programming concepts</li> <li>Graded assignments/exams and held office hours for student support</li> </ul>	
BPM II: Basic Principles of Medicine	St. George's University
INSTRUCTOR	Jan. 2021 - Jun.2021
<ul> <li>Served as a lecturer for Introduction Biomedical Informatics</li> <li>Developed material, assessment, and exam questions</li> <li>Conducted student office hours</li> </ul>	
PUBH 302: Public Health	St. George's University
Instructor	Aug. 2020 - Jun.2021
<ul> <li>Served as a lecturer for Introduction to Health Informatics</li> <li>Developed exam questions and conducted office hours for student support</li> </ul>	

Penn State University Aug. 2023 - Present

Penn State University

Penn State University

Aug. 2023 - Present

Aug. 2021 - Present

### **COMP 420: Database Systems**

Adjunct Assistant Professor

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

### 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 labs sessions
- · Graded assignments/exams and provided feedback
- Take students' attendance and manage a class cohort

### **COMP 420: Database Systems**

### FACILITATOR

· Undergrad tutoring and small group facilitation

## **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

### 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

### 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.

### 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

### **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

Ministry of Education, Gov. of Grenada Aug. 2010 - Jul. 2011

St. George's University

Aug. 2009 - May 2010

University Park, PA Aug. 2021 - Current

New Providence, NJ June 2024 - July 2024

Greenwood Village, CO May. 2023 - August. 2023

> St. George's, GD Dec. 2011 - July. 2021

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

# **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 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 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 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

# Academic Achievements Awards & Honors

### Fellowships & Scholarships

2025	CRA-WP IDEALS, Computer Research Association Grad Cohort for IDEAL Scholarship	Denver, CO
2024	2024 <b>THRIVE</b> , THRIVE BLK Men in Tech. Conference Scholarship	
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
WARDS	5	
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

St. George's, GD Sept. 2020

St. George's, GD Mar. 2019

St. George's, GD

St. George's, GD

Aug. 2014

Aug. 2017

Penn State, College of Information Science	s & Technology	United States
Invited panelist <research and<="" in="" information="" sciences="" td=""><td>ID TECHNOLOGY PANEL&gt;</td><td>Jan. 2025</td></research>	ID TECHNOLOGY PANEL>	Jan. 2025
<ul><li>Present research on advancing low-resource mult</li><li>Discuss the problem landscape, cutting-edge rese</li></ul>	ilingual approaches in the era of artificial intelligence varch, and future research direction for disinformation detection	
Cohere for Al		United States
INVITED TALK <cohere ai="" for="" guest="" speaker=""></cohere>		May. 2024
<ul> <li>Present research on advancing low-resource mul</li> <li>Discuss the problem landscape, cutting-edge res</li> <li>St. George's University, Department of Co</li> </ul>	tilingual approaches in the era of artificial intelligence earch, and future research direction for disinformation detection <b>mputers and Technology</b>	St. George's, Grenada
Invited talk and panelist on <forum on="" opportunitie<="" td=""><td>s in Emerging Technology&gt;</td><td>Jan. 2024</td></forum>	s in Emerging Technology>	Jan. 2024
<ul> <li>Expose students to emerging technologies currer</li> <li>Discuss the applications and implications of som EMNLP 2023, Conference on Empirical Met</li> </ul>	ntly being used or explored across different fields. e of these technologies. t <b>hods in Natural Language Processing</b>	Sentosa, Singapore
MAIN CONFERENCE PROCEEDINGS PRESENTATION FOR <202 Presented the Paper: Fighting Fire with Fire: The Discussed the dual capacity of LLMs for offensive St. George's University, Department of Cor	BE SEMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING> Dual Role of LLMs in Crafting and Detecting Elusive Disinformation. misuse and defensive detection of disinformation. <b>nputers and Technology</b>	Dec. 2023 St. George's, Grenada
INVITED TALK ON <artificial ai<="" and="" intelligence="" latest="" td=""><td>Research&gt;</td><td>Nov. 2023</td></artificial>	Research>	Nov. 2023
<ul><li>Presented on the history of AI to present and lates</li><li>Discussed my latest research, Fighting Fire with Fi</li></ul>	t in AI research re, highlighting the dual capacity of LLMs for disinformation misuse a	and detection.
National Science Foundation Annual Meeti	ng 2023	Tempe, AZ
Poster Presentation for < National Science Foundation	on Research Traineeship>	Oct. 2023
Delivered a poster presentation on integrating ling guage technology	guistic, psychological, and AI approaches for native accent variant pr	ocessing on human lan-
National AI Institute for Exceptional Educa	tion	University Park, PA
Invited Talk For < National Science Foundation and the Delivered a talk on AI Transforming Education for	e Institute of Education Sciences Al Research Institutes> Children with Speech and Language Pathologies	Sep. 2023
Pan-APA 6th Annual Conference		University Park, PA
CONFERENCE PRESENTATION FOR <building <ul="" a="" resilient=""> <li>Introduced the first case study on detecting false of</li> <li>Discuss the challenges and future research direction</li> </building>	FUTURE FOR AFRICA IN THE POST COVID WORLDE> claims in the Caribbean islands, a low-resource language region. ons for combating multilingual long-tail fake news.	Apr. 2023
<b>Computing Research Association Grad Coh</b>	ort Workshop for IDEALS Skills	Honolulu, HI
LIGHTENING TALK FOR <2023 GRAD COHORT FOR IDEALS LIG	htning Talk>	Mar. 2023
• Delivered a lightning talk on Detecting False Claim	is in Low-Resource Regions: A Case Study of Caribbean Islands	
ACl 2022, 60th Annual Meeting of the Assoc	iation for Computational Linguistics	Dublin, IRL
WORKSHOP PRESENTATION < COMBATING ONLINE HOSTILE F • Presented the Paper: Detecting False Claims in Lo • Discussed future work on low-resource language	POSTS IN REGIONAL LANGUAGES DURING EMERGENCY SITUATION> w-Resource Regions: A Case Study of Caribbean Islands processing to Combat COVID-19 Related Online Hostile Content	May. 2022
Service and Leadership		
12th Mid-Atlantic Student Colloquium on S Organizing Committee Member	peech, Language & Learning (MASC-SLL)	University Park, PA August. 2025 - PRESENT
<ul> <li>Assist Conference Chairs with abstracts and paper</li> <li>Participate in the presentation, abstract, and man</li> <li>Assess with organization and logistics of conferen</li> </ul>	submission uscript review processes ce	-
Academic Conference Reviewer		University Park, US
Conference Reviewer		Jan. 2024 - 2025
2024 ACL conference review		
Workshop on Detecting Al-Generated Cont	tent at COLING 2025	Abu Dhabi, UAE
<ul> <li>PROGRAM COMMITTEE MEMBER</li> <li>Assist Conference Chairs in soliciting abstracts</li> <li>Participate in the presentation, abstract, and mar</li> <li>Serve as Session Chair as requested by Conference</li> </ul>	nuscript review processes	August. 2024 - PRESENT
College of Information Science and Technol	ology Committee	University Park, PA
GRADUATE STUDENT BILL OF RIGHTS COMMITTEE		May 2024 - August 2024
<ul><li>Meet with keystroke holders</li><li>Develop students' bill of rights</li></ul>		
March 5, 2025	Jason S. Lucas · Curriculum Vitae	6

EMINLP 23 CONFERENCE VOLUNTEER	
• Provide technical support for the main	conference
Poster presentations support and coord	lination
Participant registration and check-in	
Penn State Pan-African Professiona	al Alliance
IT Officer	
Set IT goals and lead initiatives	
Manage organization website     Direct IT operations for organization's out	ionts and activities
<ul> <li>Support organization's president and ex-</li> </ul>	ecutive members
ENVISION: STEM Career Day Suppo	rting Young Women
INSTRUCTOR	
Led LinDiv outreach fellowship activities	
Prepare presentation material and organ	nize training
Graduate Student Association in In	formation Sciences & Technology
President	
• Led an executive team of 5 members sw	erving 200+ graduate students at Penn State
Revised organization's mission and visio	n towards strategic change
<ul> <li>Conducted mass mixed-method student</li> <li>Analyze data using thematic analysis and</li> </ul>	: survey to assess needs, gaps, and college climate
<ul> <li>Analyze data using mematic analysis and</li> <li>Advocated for students by presenting fir</li> </ul>	idings to the college deans, program directors, and administrative staf
<ul> <li>Successfully effected change in students</li> </ul>	academics, engagement, and experience for 200+ students
NSF LINDIV Graduate Research Trai	ning Program
Outreach Coordinator	
• Coordinated outreach for the NSF LINDI	/ Graduate research training program 2022
• Led a team of 7 to execute a STEM caree	r day workshop, ENVISION, supporting young women
Grenada Red Cross	
IT Officer	
Led information technology initiatives	
Mentor and supervise interns	
<ul> <li>Oversee web development</li> <li>Support the president</li> </ul>	
• Support the president	
Fit For Life: Youth Development Pr	ogram
D	

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

# **Mentorship**

### Human AI in Action research - Dr. Betsy Campbell

### IST UNDERGRADUATE STUDENTS

- Gracy Juanita Franco Prasanna undergraduate Al 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
- · Austin Rizer undergraduate Boston Dynamics Spot robot Simulation and Orgin's lab Cobot arms projects
- Michael Wayes Charles Undergraduate Data Sensorium

## **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

# PRESS COVERAGE

### **NEWS INTERVIEW**

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

University Park, PA Aug. 2023

University Park, PA Aug. 2023 - PRESENT

University Park, PA Nov. 2022 - Aug. 2023

## University Park, PA

Nov. 2022 - Aug. 2023

University Park, PA

Aug. 2022 - Jan. 2023

St. George's, GD Jul. 2020 - Jun. 2021

St. George's, GD Jun. 2010 - Jun. 2017

University Park, PA Jan. 2025 - PRESENT

University Park, PA August. 2023 - PRESENT

Rochester, NY

## **Empirical Methods in Natural Language Processing**

EMNI P'23 CONFERENCE VOLUNTEER

## **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

Phone: 1(954) 661-1773 Email: theodoremhollis@gmail.com, thollis@sgu.edu Profile: https://www.linkedin.com/in/theodoremhollisphd//

M.Sc. Graduate Advisor and Mentor. - Vladimir Brusic, Ph.D., BEng(Mech), MEng(Biomed), GDip(CompSci), MApp-Sci(InfoTech), MBA, Boston

University Phone: +86 574 8818 0000 Ext 8809 Email: vladimir.brusic@nottingham.edu.cn Profile:https://www.nottingham.edu.cn/en/science-engineering/people/inspiring-people/vladimir-brusic.aspx

### Supervisor, (Ass. Dean and Chair) - Dolland Noel, M.D., FACP, St. George's University Work: 444-4175 Ext: 3407/3172 Email: dnoel@sgu.edu Profile: https://www.linkedin.com/in/dolland-noel-19077864/?originalSubdomain=gd

### MPH Graduate Advisor and Mentor - Emanuel Keku, M.A, MSPH, M.D., FACP, St. George's University

Work: 444-4175 Ext: 3026 Email: ekeku@sgu.edu Profile: https://www.sgu.edu/research/sgu-research/emmanuel-o-keku-ma-msph-md-faha/