

# Jason Lucas

Data Sci. &amp; AI Research Scientist | PIKE Research Lab

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## EDUCATION

### THE PENNSYLVANIA STATE UNIVERSITY

PH.D. IN INFORMATICS

Data Science and AI

GPA: 3.91

Dec 2025 | University Park, PA

### ST. GEORGE'S UNIVERSITY

MASTER OF PUBLIC HEALTH

Epidemiology

GPA: 3.83

May 2021 | Grenada, WI

### BOSTON UNIVERSITY

M.Sc. IN COMPUTER INFO. SYS.

Health Informatics

GPA: 3.64

May 2014 | Boston, MA

### ST. GEORGE'S UNIVERSITY

B.Sc. IN INFORMATION TECHNOLOGY

GPA: 3.64

May 2010 | Grenada, WI

### PENN STATE LINDIV

LINGUISTICS &amp; LANGUAGE SCIENCE

Certificate

May 2025 | University Park, PA

## INTEREST

Natural Language processing

Low-Resource Multilingual NLP

Adversarial Machine Learning

Adaptative and Alignment Tuning

Fake News generation &amp; Detection

Large Language Model Hallucination

## SKILLS

### ARTIFICIAL INTELLIGENCE

NLP • ML • DL • LLM

### DATA SCIENCES

Wrangling • Exploratory

Visualization • Analytics

Scrapping • Predictive

Modeling •

### PROGRAMMING

Language:

Python • SQL • PyTorch • Java

L<sup>A</sup>T<sub>E</sub>X •

Familiar:

C++ • CSS • PHP • HTML

### TRANSFERABLE

Presentation • Project Management

Training • Communication •

### PLATFORM

Public Health:

Epi Info • R • GeoDa • SAS

Data Science &amp; AI

VS Codes • Google Collab

IntelliJ • Github • Oracle • MSSQL

## EXPERIENCE

### THE PENNSYLVANIA STATE UNIVERSITY | GRADUATE ASSISTANT

Aug. 2021 - Present | PA, US

#### • Research Assistant

- Applying novel NLP and machine learning techniques to combat dis/misinformation across languages, contexts, and distribution gaps. under **SysFake** headed by **Dr. Dongwon Lee's** stewardship.
- Develop research direction, mentor interns, and review conference papers
- Gained experience with Python, PyTorch, APIs (Twitter, DeepInfra, OpenAI, Transformers (Large Language models), Deep Learning, Machine Learning, Web Scrapping

#### • Teaching Assistant

- Responsible for conducting office hours, managing classes, coaching students, recording attendance, grading assessment, and providing written feedback.

#### • NSF NRT Fellow

- Applying transdisciplinary research to advance human-AI interaction through **LINDIV** research traineeship.

### ST. GEORGE'S UNIVERSITY | FACULTY

June 2011 – July 2021 | Grenada, WI

#### • Instructor, Demonstrator, Adjunct Professor, Facilitator

- Served as Head of Division & Software Administrator
- Led teams, trained and coordinated across SimCapture/Examsoft platforms
- Mentored interns, supported clinical didactic and examinations
- Taught undergraduate and graduate-level courses in IT, Medicine, and Public Health
- Innovated an Online Objective Structured Clinical Examination during COVID-19.

### GOVERNMENT OF GRENADA | CERTIFIED TEACHER

Aug 2010 – Jul 2011 | Grenada, WI

#### • Managed Information Technology lab

#### • Taught Caribbean Secondary Education Certificate level Information Technology

## PUBLICATIONS

- [1] D. Macko, R. Moro, A. Uchendu, I. Srba, **Lucas, Jason Samuel**, M. Yamashita, N. I. Tripto, D. Lee, J. Simko, and M. Bielikova. Authorship obfuscation in multilingual machine-generated text detection. *arXiv preprint arXiv:2401.07867*, 2024.
- [2] D. Macko, R. Moro, A. Uchendu, **Lucas, Jason**, M. Yamashita, M. Pikuliak, I. Srba, T. Le, D. Lee, J. Simko, and M. Bielikova. **MULTITuDE: Large-Scale Multilingual Machine-Generated Text Detection Benchmark**. In H. Bouamor, J. Pino, and K. Bali, editors, *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pages 9960–9987, Singapore, Dec. 2023. **Association for Computational Linguistics**.
- [3] **Lucas, Jason**, L. Cui, T. Le, and D. Lee. **Detecting False Claims in Low-Resource Regions: A Case Study of Caribbean Islands**. In T. Chakraborty, M. S. Akhtar, K. Shu, H. R. Bernard, M. Liakata, P. Nakov, and A. Srivastava, editors, *Proceedings of the Workshop on Combating Online Hostile Posts in Regional Languages during Emergency Situations*, pages 95–102, Dublin, Ireland, May 2022. **Association for Computational Linguistics**.
- [4] **Lucas, Jason**, A. Uchendu, M. Yamashita, J. Lee, S. Rohatgi, and D. Lee. **Fighting Fire with Fire: The Dual Role of LLMs in Crafting and Detecting Elusive Disinformation**. In H. Bouamor, J. Pino, and K. Bali, editors, *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pages 14279–14305, Singapore, Dec. 2023. **Association for Computational Linguistics**.

# LINKS

Website:// [jasonslucas.com](https://jasonslucas.com)  
Github:// [jsl5710](https://github.com/jsl5710)  
LinkedIn:// [jsl](https://www.linkedin.com/in/jsl)  
Google Scholar:// [jasonlucas](https://scholar.google.com/citations?user=jasonlucas)

# SERVICE

**President** • Graduate Student Assc.  
**Outreach Coordinator** • LinDiv  
**IT Officer** • Pan-African Prof. Alliance  
**Volunteer** • EMNLP 2023 Volunteer  
**Founder & Director** • Fit For Life  
**Peer Reviewer** • ACL 2024  
**IT Officer** • Red Cross Grenada

# RESEARCH PROJECT

## PIKE RESEARCH LAB | PENN STATE UNIVERSITY

Led and collaborate on the following research

- **Research Project:** SysFake, SocialGPT, FCFC
- **Ph.D. Projects:** C-Transfer, F3, X-GEN, GREENLAND

# FELLOWSHIP

2022-24 Linguistic Diversity Across the Lifespan, National Science Foundation.  
2021-22 Funds for Excellence in Graduate Recruitment, Penn State University.  
2018-20 Graduate Faculty Fellowship, St. George's University  
2007-10 Undergraduate Scholarship, Government of Grenada.

# AWARD

2018 Chancellor's List for Academic Excellence, MPH  
2012 Excellence and Dedication to OSCE, SGU  
2010 Dean's List for Academic Excellence, B.Sc  
2008 Chancellor's List for Academic Excellence, B.Sc

# INTERNSHIP

2024 Interaction (upcoming)  
2023 Coalfire  
2010 Flow Grenada (LIME: Cable & Wireless)

# IT PROJECT

## INFORMATION SYSTEMS PROJECTS | ST. GEORGE'S UNIVERSITY

Developed and championed the following projects

- **Telemedicine Virtual Hospital:**
  - I oversaw functional requirements gathering, made recommendations, piloted and tested telemedicine technology, provided training to participants, and successfully executed the go-live.
- **Online Clinical Examination Exercise:**
  - In response to COVID-19, I spearheaded the creation, testing, piloting, training, and deployment of the Online Clinical Evaluation Exercise (OCEx). We revamped the Objective Structured Clinical Examination process, uniquely integrating it with our in-house platforms, a first of its kind worldwide!
- **B-Line Simulation Lab Expansions:**
  - Managed B-Line Medical simulation lab expansion, collaborating with a diverse team and supporting the project manager.