

Jason Lucas

Data Sci. & 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 & LANGUAGE SCIENCE

Certificate

May 2025 | University Park, PA

INTEREST

Natural Language processing

Low-Resource Multilingual NLP

Adversarial Machine Learning

Adaptive and Alignment Tuning

Fake News generation & 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

LaTeX •

Familiar:

C++ • CSS • PHP • HTML

TRANSFERABLE

Presentation • Project Management

Training • Communication •

PLATFORM

Public Health:

Epi Info • R • GeoDa • SAS

Data Science & 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/Examssoft 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, **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**.
- [2] **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**.
- [3] **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
Github:// [jsl5710](https://github.com/jsl5710)
LinkedIn:// [jsl](https://www.linkedin.com/company/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

INTERNSHIP

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

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

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

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.