

Jason Samuel Lucas

Curriculum Vitae

Research novel Natural Language Processing approaches to c long-tail misinformation with data distributions that are low-resource, imbalance, multi-lingual and multi-domain.

Research Interest

keywords **Natural Language Processing, Machine Learning, Misinformation Detection, Low-Resource Language Detection, Multilingualism, Linguistics, Public Health, Social Network Analysis, Biomedical Informatics.**

Lab **PIKE**, *Penn State Information, Knowledge, and Web Research Group.*
Advisor: Prof. Dongwon Lee

Education

- 2021-25 **Ph.D. (Informatics)**, *Penn State University*, United States.
Concentration: Data Sciences and AI
- 2018-20 **MPH (Epidemiology)**, *St. George's University*, Grenada.
Capstone: Effects of Self-Care Applications in Prediabetics in Grenada: An Assessment of Compliance and Adherence with the Intervention (A Research Proposal)
- 2012-14 **M.Sc. (Computer Information Systems)**, *Boston University*, United States.
Concentration: Health Informatics
- 2007-10 **B.Sc. cum laude (Information Technology)**, *St. George's University Grenada*.
- 2005-07 **A.S. (Information Technology)**, *T.A. Marryshow Community College*, Grenada.
- 2022-24 **LINDIV Certification**, *Center for Language Science*, Penn State University, US.
Program: NSF Research Traineeship

Relevant Coursework

Informatics

- 2021 **College of Information Science & Technology**, *Penn State University*.
- *IST 557: Data Mining: Techniques and Applications*
 - *IST 510: Foundations of Computational Informatics*
 - *IST 530: Foundations of Social Informatics*
 - *IST 525: Computer-Supported Cooperative Work*
 - *LING 596: Linguistics and Language Science*

Appointment

Academia

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- 2022- **Graduate Research Assistant**, *Penn State University*.
 ○ *PIKE Lab*: Penn State Information, Knowledge, and Web Research Group
 ○ *LINDIV*: Language Diversity Across Lifespan Graduate Research Traineeship Program
- 2021-22 **Graduate Teaching Assistant**, *Penn State University*.
 ○ *IST 140*: Introduction to Application Development
 ○ *IST 210*: Organization of Data
- June-21 **Instructor**, *St. George's University*, School of Medicine.
 ○ *PUBH 302: Public Health*, Introduction to Health Informatics
 ○ *BPM II: Basic Principles of Medicine*, Introduction to Biomedical Informatics
- 2011-21 **Demonstrator**, *St. George's University*, School of Medicine.
 ○ *Support Clinical didactics and examination*
 ○ *Headed the B-Line Division*
- 2010-11 **Adjunct Assistant Professor**, *St. George's University*, School of Arts and Science.
 ○ *COMP 420*: Database Systems course
- 2010-11 **Certified Teacher I**, *Ministry of Education*, Government of Grenada.
Caribbean Secondary Education Teacher
- 2010-11 **Facilitator**, *St. George's University*, Department of Educational Services, Grenada.
Undergrad tutoring and small group facilitation

Awards and Fellowships

Fellowships

- Jun-22 **Linguistic Diversity Across the Lifespan**, NSF Graduate Fellowship (LinDiv).
- Jun-22 **Black in AI**, International Conference on Machine Learning Grant (AI).
- May-22 **Diversity & Inclusion Grant**, Association for Computational Linguistics (ACL).
- Jun.-21 **Funds for Excellence in Graduate Recruitment (FEGR)**, Penn State University.
- 2018-20 **Graduate Faculty Fellowship**, *St. George's University*.
- 2007-10 **Undergraduate St. George's University Scholarship**, *Government of Grenada*.

Award

- May-18 **Chancellor's List for Academic Excellence**, *MPH*, *St. George's University*.
- Jun.-12 **Excellence and Dedication to OSCE**, *St. George's University*.
- May-10 **Dean's List for Academic Excellence**, *B.Sc.*, *St. George's University*.
- May-08 **Chancellor's List for Academic Excellence**, *B.Sc.*, *St. George's University*.

Publications

Paper

1. **Jason S. Lucas**, *Limeng Cui*, *Thai Le*, and *Dongwon Lee* .2022., Detecting false claims in low-resource regions: a case study of Caribbean islands. In *CONSTRAINT 2022: Second Workshop on Combating Online Hostile Posts in Regional Languages during Emergency Situation* (ACL), pages 859–862. ACL.
 ○ *Accepted*

2. **Zero-shot Cross-Lingual Transfer: Combating Multi-lingual, Multi-domain Long-tail Misinformation .**
 - *In-development*

Services

- Aug.-22 **President**, *Graduate Student Association*, in Information Sciences and Technology.
 Jan.-15 **Director and Co-founder**, *Fit For Life*, Youth Development Program.

Professional Development

Certificate _____.

- Apr.-21 **Python programming**, *Purple Course, Python Is Easy*.
 ○ Developed a two player card game called SCAT
- 2018-21 **Collaborative Institutional Training Initiative , (CITI)**.
 ○ *Biomedical Human Subjects Research (IRB) Course*
 ○ *Records Based Research*
 ○ *Responsible Conduct of Research (RCR)*
 ○ *Social and Behavioral Research Best Practices for Clinical Research*
- Feb.-20 **Global Compliance Training**, *Global conflicts of interest, global anti-bribery, global business ethics, foreign corrupt practices act and anti-money laundering*.
- Jan.-20 **Family Educational Rights and Privacy Act for Higher Education, (FERPA)**.

Conferences _____.

- Jul.-18 **International Conference on Machine Learning, (ICML)**, 2022, MD, US.
 Misinformation Counter-Measures & ML Workshop
- May-22 **Association of Computational Linguistic, (ACL)**, 2022, Dublin, Ireland.
 Paper Presentation
- Jul.-18 **Society for Simulation in Healthcare, (SSH)**, SimOps 2018, Portland, OR.
 11.5 Accredited Hours of Inter-professional Continuing Education, Registration ID: 5009
- Oct.-17 **B-Line Medical 3rd Annual Symposium**, *Laerdal Medical*, Washington, D.C.

Platforms and Skills

App. _____.

- Database ORACLE, MYSQL, MICROSOFT ACCESS, MS SQL SERVER, NETBEANS
- Platform EPI INFO, GEODA, R, PYCHARM IDE, INTELLIJ IDE, GOOGLE COLAB, GOOGLE CLOUD

Languages _____.

- Programming PYTHON, SQL, L^AT_EX, CSS, PHP, HTML5, C++, JAVA

Information Systems Projects

- Sep.-10 **Telemedicine & Virtual Hospital Teaching**, *St. George's University*, Grenada.
Led the team that gather functional requirement and made recommendations. Appropriated, piloted, tested, and technology. Trained participants and administered go-live.

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- Mar.-20 **Online Clinical Evaluation Exercise Innovation**, St. George's University, Grenada.
In response to the COVID19 pandemic, I led the team that developed, tested, piloted, trained and executed the online objective structured clinical examination. My team re-engineered OSCE exam-flow and integrated with in-house platforms, done nowhere else in the world!
- Aug.-18 **OSCE Management Improvement Project**, St. George's University, Grenada.
led the OMI requirements gathering for students, faculty, and standardized patients.. Oversee the testing and implementation of new technologies to support medical education delivery.
- Aug.-13 **B-Line Expansion phase I Project**, St. George's University, Grenada.
Led the outfitting 8 additional Clinical Examination rooms with clinical equipment, B-Line Medical equipment, and other educational supporting technologies.

References

- Ph.D Advisor** **Dongwon Lee**, Ph.D., The Pennsylvania State University.
 Phone: +1(814) 865-0687
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 Profile: <https://pike.psu.edu/>
- Undergrad Dean** **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/>
- Graduate Prof.** **Vladimir Brusic**, Ph.D., BEng(Mech), MEng(Biomed), GDip(CompSci), MApp-Sci(InfoTech), MBA, Boston University.
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 Profile: <https://www.nottingham.edu.cn/en/science-engineering/staffprofile/vladimir-brusic.aspx>
- Supervisor, (Ass. Dean)** **Dolland Noel**, M.D., FACP, St. George's University.
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- Graduate Prof.** **Emanuel Keku**, M.A, MSPH, M.D., FACP, St. George's University.
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