

Christopher Clarke

UNIVERSITY OF MICHIGAN · UNIVERSITY OF GUYANA · V75 INC. · NEXUS HUB INC.

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Education

University of Michigan

PHD COMPUTER SCIENCE & ENGINEERING

- Advisor: Dr. Jason Mars

Ann Arbor MI, USA

Sept 2019 - present

University of Michigan

GRADUATE CERTIFICATE IN INNOVATION & ENTREPRENEURSHIP

- Current GPA : 4.0

Ann Arbor, MI, USA

Sept 2021 - Present

University of Michigan

MSC. COMPUTER SCIENCE & ENGINEERING

- GPA : 4.0

Ann Arbor, MI, USA

Sept 2019 - Apr 2021

University of Guyana

BSC. COMPUTER SCIENCE

- GPA : 3.2, pass w/Credit
- Undergrad thesis: *A Sentient approach to designing Smart Devices*

Georgetown, Guyana

Sept 2015 - May 2017

University of Guyana

ASC. COMPUTER SCIENCE

- GPA : 3.4, pass w/Distinction

Georgetown, Guyana

Sept 2013 - May 2015

Professional Experience

- 2021 - Present **Lecturer I**, University of Guyana
- 2019 - Present **Graduate Student Research Assistant**, University of Michigan
- 2019 - Present **Director**, V75 Inc.
- 2018 - Present **Director**, Nexus Hub Inc.
- 2019 - 2020 **Research Consultant (Core AI Team)**, Clinc Inc. (via V75 Inc.)
- 2018 - 2019 **Research Assistant**, University of Michigan
- 2017 - 2021 **Instructor**, University of Guyana
- 2016 - 2018 **Webmaster**, University of Guyana
- 2016 - 2017 **Teaching Assistant**, University of Guyana
- 2015 - 2019 **Software Engineer**, Version75 Solutions (now V75 Inc.)
- 2013 - 2016 **Information Technology Teacher**, Jos-el Educational Institute

Publications & Patents

PUBLISHED

Stefan Larson, Anish Mahendran, Joseph J Peper, **Christopher Clarke**, Andrew Lee, Parker Hill, Jonathan K Kummerfeld, Kevin Leach, Michael A Laurenzano, Lingjia Tang, Jason Mars. 2019. An Evaluation Dataset for Intent Classification and Out-of-Scope Prediction. Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP), 1311-1316. ([PDF](#), [Code](#))

IN REVIEW

Christopher Clarke, Joseph Peper, Karthik Krishnamurthy, Walter Talamonti, Kevin Leach, Yiping Kang, Walter Lasecki, Lingjia Tang, Jason Mars. 2022. One Agent To Rule Them All: Towards Multi-agent Conversational AI. Under review

Joseph Peper, **Christopher Clarke**, Jun Ho Shin, Ferhan Ture, Lu Wang, Lingjia Tang. 2022. Towards Effective Data Synthesis and Evaluation for Multi-Intent NLU. Under review

Yiping Kang, Ashish Mahendra, **Christopher Clarke**, Lingjia Tang, Jason Mars. 2022. Towards Personalized Intelligence at Scale. Under review

Roland Daynauth, **Christopher Clarke**, Yiping Kang, Lingjia Tang, Jason Mars. 2022. AVTN: Adaptive Intelligence for Object Detection via Dynamic Model Composition. Under review

IN PREP

Christopher Clarke, Karthik Krishnamurthy, Walter Talamonti, Kevin Leach, Yiping Kang, Walter Lasecki, Lingjia Tang, Jason Mars. 2022. One for All: An Integrated Multi-Agent System for Conversational AI. Under revision

PATENTS

Andrew Lee, Stefan Larson, **Christopher Clarke**, Kevin Leach, Jonathan K Kummerfeld, Parker Hill, Johann Hauswald, Michael A Laurenzano, Lingjia Tang, Jason Mars. 2020. Systems and methods for constructing an artificially diverse corpus of training data samples for training a contextually-biased model for a machine learning-based dialogue system. US Patent 10,796,104, 2020

Awards, Fellowships, & Grants

2017 **Seeds for the Future Programme Award Recipient**, Huawei

2015 **Promoting CSME through Field Promotion Award Recipient**, Caricom

Presentations

** presenting author; + mentored undergraduate*

INVITED TALKS

Summer 2020. *DevOps Automation with Gitlab*. V75 Dev Talk, Remote ([Video](#), [Slides](#)).

Spring 2018. *A Sentient Approach to Designing Smart Devices*. 2nd Annual Undergraduate Research Conference, Turkeyen, Guyana

CONTRIBUTED PRESENTATIONS

Timothy Indarsingh⁺, Girendra Persaud, **Christopher Clarke**. 2018. A Comparative Analysis of the Usability of Event Management Software Interfaces. Poster: 2nd Annual Undergraduate Research Conference, Turkeyen, Guyana

Teaching Experience

Fall 2021	EECS 498: Conversational AI , Graduate Student Instructor	University of Michigan
Summer 2018	CSE 1201: Introduction to Programming , Lecturer	University of Guyana
Spring 2018	CSE 3203: Object Oriented Software Analysis, Design and Development , Lecturer	University of Guyana
Spring 2018	CSE 2200: Contemporary Programming Paradigms , Co-Instructor	University of Guyana
Fall 2017	ITE 4102: Applied Project , Co-Instructor	University of Guyana
Fall 2017	CSE 3101: Internet Computing II , Lecturer	University of Guyana

Fall 2017 **CSE 2201: Internet Computing I**, Lecturer

*University of
Guyana*

Fall 2017 **CSE 2100: Data Structure & Algorithms**, Lecturer

*University of
Guyana*

2016-2017 **V75 Web Developer Series**, Course Co-ordinator & Instructor

WeOwn Space

Mentoring

2021-2022 **Victoria Shipman**, Explore CS Research Programme, University of Michigan

2021-2022 **Tamariah Davis**, Explore CS Research Programme, University of Michigan

2017-2018 **Timothy Indarsingh**, Undergrad Advisee, University of Guyana

Outreach & Professional Development

SERVICE AND OUTREACH

2021-Present **Explore Computer Science Research**, Mentor

*University of
Michigan*

2017-Present **Nexus Hub Inc. Annual Hack-Solve**, Co-ordinator

*Georgetown,
Guyana*

2014-2017 **University of Guyana Career Day**, Volunteer, Co-ordinator

*Georgetown,
Guyana*

2017 **DevX Event**, Co-ordinator

*Georgetown,
Guyana*

DEVELOPMENT

MIT 15.390.1x: Entrepreneurship 101: Who is your customer?, 2015.

The Entrepreneurs & Innovators Group of Guyana: Entrepreneurship & Innovators Workshop, 2015

Caricom CSME in the classroom: Improving Teaching & Learning, 2015

HarvardX: GSE2x Leaders of Learning, 2014.

PEER REVIEW

International Symposium on Code Generation and Optimization (CGO), Artifact
Evaluation Committee

2020

**IEEE International Symposium on Performance Analysis of Systems and Software
(ISPASS)**, Reviewer

2020

Empirical Methods in Natural Language Processing (EMNLP), Reviewer

2021

Association of Computational Linguistics (ACL) Rolling Review, Reviewer

2022