

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

- GPA : 4.0

Ann Arbor, MI, USA

Sept 2021 - Apr 2023

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

Fall 2022	Applied Scientist Intern , Amazon
Summer 2022	Research Intern , Microsoft
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

Christopher Clarke, Matthew Hall, Gaurav Mittal, Ye Yu, Sandra Sajeev, Jason Mars and Mei Chen. 2023. Rule By Example: Harnessing Logical Rules for Explainable Hate Speech Detection. 61st Annual Meeting of the Association for Computational Linguistics: ACL 2023 ([PDF](#), [Code](#))

Christopher Clarke, Yuzhao Heng, Yiping Kang, Krisztian Flautner, Lingjia Tang and Jason Mars. 2023. Label Agnostic Pre-training for Zero-shot Text Classification. Findings of the Association for Computational Linguistics: ACL 2023 ([PDF](#), [Code](#))

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. Findings of the Association for Computational Linguistics: ACL 2022 ([PDF](#), [Code](#))

Yiping Kang, Ashish Mahendra, **Christopher Clarke**, Lingjia Tang, Jason Mars. 2022. Towards Personalized Intelligence at Scale. arXiv preprint 2022 ([PDF](#))

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, Karthik Krishnamurthy, Walter Talamonti, Yiping Kang, Lingjia Tang, Jason Mars. 2023. One Agent Too Many: User Perspectives on Approaches to Multi-agent Conversational AI. Under review

IN PREP

Christopher Clarke, Stefan Heng, Lingjia Tang, Jason Mars. 2023. PEFT-U: Parameter-Efficient Fine-Tuning for User Personalization at Scale. In prep

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

2022 **Weinberg Institute for Cognitive Science Travel Award**, University of Michigan

2022 **William R. & Flora Hewlett Foundation Award**, University of Michigan

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

Winter 2023	EECS 449: Conversational AI , Graduate Student Instructor	University of Michigan
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

2022-Present	Yuhzao (Stefan) Heng , Undergrad, University of Michigan
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 - 2023
Association of Computational Linguistics (ACL) Rolling Review , Reviewer	2022 - 2023
Neural Information Processing Systems (NeurIPS) , Reviewer	2022 - 2023