

# Christopher Clarke

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

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## Education

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### 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

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- 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

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### PUBLISHED

**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. To appear in Findings of 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

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

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

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

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

## Presentations

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*\* 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<sup>+</sup>, 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

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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

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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

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### 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*