Christopher Clarke

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

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Education

University of Michigan *Ann Arbor MI, USA*
PHD COMPUTER SCIENCE & ENGINEERING *Sept 2019 - present*
- Advisor: Dr. Jason Mars

University of Michigan *Ann Arbor, MI, USA*
GRADUATE CERTIFICATE IN INNOVATION & ENTREPRENEURSHIP *Sept 2021 - Present*
- Current GPA : 4.0

University of Michigan *Ann Arbor, MI, USA*
MSC. COMPUTER SCIENCE & ENGINEERING *Sept 2019 - Apr 2021*
- GPA : 4.0

University of Guyana *Georgetown, Guyana*
BSC. COMPUTER SCIENCE *Sept 2015 - May 2017*
- GPA : 3.2, pass w/Credit
- Undergrad thesis: *A Sentient approach to designing Smart Devices*

University of Guyana *Georgetown, Guyana*
ASC. COMPUTER SCIENCE *Sept 2013 - May 2015*
- GPA : 3.4, pass w/Distinction

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, 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. 2022. One Agent too Many: User Perspectives on Approaches to Multi-agent Conversational AI. Under review

Christopher Clarke, Yuzhao Heng, Yiping Kang, Krisztian Flautner, Lingjia Tang and Jason Mars. 2023 Label Agnostic Pre-training for Zero-shot Text Classification. Under review

Christopher Clarke, Matthew Hall, Gaurav Mittal, Ye Yu, Sandra Sajeev, Jason Mars and Mei Chen. Rule By Example: Harnessing Logical Rules for Explainable Hate Speech Detection. 2023. Under review

In Prep

Christopher Clarke, Stefan Heng, Yiping Kang, Krisztian Flautner, Lingjia Tang, Jason Mars. 2022. Zero-shot, Few-shot, Live-shot: Exploring the limitations of Text Classification in Production. 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

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, 2022*

Association of Computational Linguistics (ACL) Rolling Review, Reviewer   *2022, 2023*

Neural Information Processing Systems (NeurIPS, Reviewer   *2022*