Bonaventure Chidube **MOLOKWU**  Unit 903, 2100 Boulevard de Maisonneuve Ouest, Montréal, Quebec H3H 1K6, Canada

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ORCID: https://orcid.org/0000-0003-4370-705X WWW: https://bhevencious.github.io/

LinkedIn: https://ca.linkedin.com/in/bonaventuremolokwu/

An active researcher within the domain of Artificial Intelligence (AI) with respect to Social Network Analysis (SNA). My research entails harnessing Machine Learning (ML) and Deep Learning (DL) methodologies toward resolving a range of open (research) problems and real-world problems in SNA. To this end, I have successfully developed and implemented effective as well as efficient frameworks for resolving the following research problems, viz: Breakup Prediction, Link Prediction, Link Influence and Dynamics, Node Classification, Trend/Pattern Analysis, and Eventbased Analysis/Prediction. In this regard, my research and work have been funded as well as supported by the Natural Sciences and Engineering Research Council of Canada (NSERC), Canadian Institutes of Health Research (CIHR), International Business Machines (IBM) Corporation, Vector Institute for Artificial Intelligence, University of Windsor, etc. Also, I am a seasoned solutions and web/mobile developer with over 10 years of industry experience. I am flexible, collaborative, and a good multi-tasker who is self-motivated, committed, and target-driven. I can adapt swiftly to newer skills, and can manage time and other resources wisely without constant supervision.

### **EDUCATION**

University of Windsor, Ontario, Canada 2017 - 2021 Ph.D. (Honors) Cumulative GPA: 92.50% School of Computer Science - Major in Artificial Intelligence University of Nigeria, Enugu State, Nigeria 2014 - 2016 M.Sc. (Honors) Cumulative GPA: 4.40/5.00 (88.00%) Department of Computer Science - Major in Software Engineering University of Benin, Edo State, Nigeria 2006 - 2011 B.Sc. (Honors) Grade: Second-Class Upper Department of Computer Science

# PI

PROFESSIONAL DEVELOPMENT
Professional Engineers Ontario (PEO), Ontario, Canada Professional Engineering Licence PEO (File Number #: 100588171)
Natural Sciences and Engineering Research Council of Canada (NSERC-CRSNG), Ontario, Canada Training Module: Bias in Peer Review  Certificate - Bias in Peer Review
University of Windsor, Ontario, Canada Centre for Teaching and Learning University Teaching Certificate (UTC)
Brainbench Incorporated, Virginia, USA Information and Communications Technology Certified Internet Professional – Web Development (BCIP) 2011 Certified PHP: Hypertext Preprocessor 5 Programmer 2011 Certified C++ Programmer 2011 Certified HTML 4.0 Programmer 2011 Certified JavaScript-JQuery Programmer 2011

#### TECHNICAL & PROFESSIONAL STRENGTHS

Software & Tools: TensorFlow Library, Scikit-learn Library, Keras Library, LaTex, Git Version Control,

Apache Cordova Framework, MVC Development Framework, Microsoft Office Suite,

Adobe Photoshop CS4 Suite.

**Programming** Python, PHP 5+, Java, Microsoft C#, Microsoft ASP.NET, C/C++, JQuery,

Languages: JavaScript/JSON, SQL (MS-SQL/MySQL).

Markup Languages: HTML 5, HTML 4, CSS 3, CSS 2, Bootstrap 3+.

#### ACADEMIC AWARDS & RECOGNITION

1. 2021 Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant, [RGPIN-2021-03181].

- 2. 2021/2022/2023 Vector Institute for Artificial Intelligence Postgraduate Affiliate Award.
- 3. 2020 Best Paper Award at the 32<sup>nd</sup> International Conference on Scientific and Statistical Database Management (SSDBM): "Node Classification and Link Prediction in Social Graphs using RLVECN".
- 4. 2020 COVID-19 Rapid Research Funding Opportunity: CIHR Finance Grant Account Number (VR5 172669).
- 5. 2019/2020 University of Windsor Community Scholarship for African Students.
- 6. 2019/2020 Conference Travel Award (Doctoral): University of Windsor, Canada.
- 7. 2018/2019/2020/2021 Research Assistantship (RA): Artificial Intelligence Research Laboratory, University of Windsor, Canada.
- 8. 2017/2018/2019 Graduate Assistantship (GA): School of Computer Science, University of Windsor, Canada.
- 9. 2017/2018 Research Assistantship (RA): WODD (Warehousing, Object-oriented, Data mining, and Database design) Laboratory, University of Windsor, Canada.
- 10. 2019 International Business Machines (IBM) Research Support via the provision of a high performance IBM Power System S822LC Linux Server.
- 11. 2019 Canadian Union of Public Employees (CUPE) local 4580 Students' Scholarship.
- 12. 2018 Director's Honour Roll (recognition of academic excellence): School of Computer Science, University of Windsor, Canada.
- 13. 2017 Academic/Entrance Scholarship: School of Computer Science, University of Windsor, Canada.
- 14. First position (computer programming contest), 2010: Nigerian Association of Computer Science Students (NACOSS) South-South Zone (Team: University of Benin).
- 15. Second position (software exhibition), 2010: University of Benin Science-Week Exhibition.
- 16. Fourth position (software exhibition), 2010: Nigerian Association of Computer Science Students (NACOSS) South-South Zone.

#### POSITIONS OF RESPONSIBILITY & SERVICE

1. International Joint Conference on Neural Networks (IJCNN)
Research Reviewer

Queensland, Australia February 2023 - Till Date

- Review, assess, and evaluate selected research papers in the areas of Neural Networks, Machine Learning, and Deep Learning architectures.
- The aforementioned task was accomplished with respect to the following criteria: Presentation, Relevance, Technical Quality, Significance of Topic, Originality, and Overall Report.

# 2. Natural Sciences and Engineering Research Council of Canada (NSERC)

College and Community Innovation (CCI) program

https://www.nserc-crsng.gc.ca/Professors-Professeurs/RPP-PP/ARD-RDA\_eng.asp

Reviewer - Applied Research & Development Grants

February 2022 - Till Date

- Critical and double-blind review as well as evaluation of proposals and submission requests for research funding/grant with respect to impactful projects within Canada.
- Review criteria is based on the following standards: Technical Merit, Applied Research Competence, Potential for Innovation Impact, Private-Sector Support, Contribution to the Training of Highly Qualified Personnel (HQP), and Benefit to Canada.

# 3. Springer Knowledge and Information Systems (KAIS) https://www.springer.com/journal/10115 Journal Reviewer February 2022 - Till Date

- Double-blind review, assessment, and evaluation of authors' (research) manuscript submissions with regard to the domains of Knowledge-base Systems and Information Systems.
- Review criteria is based on the following yardsticks: Goals, Importance, Related Work, Experiments, Discussions, and Clarity.

# 4. ACM Transactions on Information Systems (ACM TOIS) Research Reviewer https://dl.acm.org/journal/tois February 2021 - Till Date

- Critical review (assessment and evaluation) of assigned research submissions in the domains of Information Retrieval and Information Systems.
- Review criteria is based on, viz: Goals, Description, Evaluation, Importance, Related Work, Discussion, and Clarity.

# 5. Engineering and Commerce Case Competitions, John Molson School of Business Panelist and Case Reviewer Canada. February 2023

- Assessment and review of joint Engineering-Commerce based projects and/or cases exhibited by undergraduate students of the John Molson School of Business, Concordia University, Montréal, Canada.
- Assessment and Review criteria was focused on the following, viz: Problem Identification, Business Solution, Engineering Solution, Innovation & Creativity, Ethics & Sustainability, Presentation Format & Visuals, and Post-Presentation Questions & Answers.

# 6. Computer Science Canada (CS-CAN) / Informatique Canada (Info-CAN) Canada. Einem of Officers - Ctrickent and Roaddon Advisory Committee (CRAC) - Contember 2020 - December 2021

Finance Officer - Student and Postdoc Advisory Committee (SPAC)

September 2020 - December 2021

- Foster & represent the community of Canadian Computer Science post-secondary students and postdoctoral fellows.
- Financial record keeping with regard to the activities of SPAC.

# 7. Windsor University Faculty Association (WUFA)

University of Windsor, Ontario, Canada.

November 2020 - February 2021

Member - WUFA's Ad-Hoc Racial Justice Committee

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- Finding solutions to issues bordering on racial justice, equity, and inclusion within the University of Windsor.
- Make recommendations regarding changes to WUFA's Constitution and Bylaws to accompany the new structure and reflect diversity in representation.

# 8. Vector Institute https://vectorinstitute.ai/

Reviewer/Member - 2021 Vector Institute Scholarship Adjudication Committee

April 2021

• Assess and review scholarship applications/nominations into the Vector Institute Artificial Intelligence (AI) Master's programs at tertiary/post-secondary institutions in Ontario.

#### 9. Vector Institute https://vectorinstitute.ai/

Member - 2021 Vector Institute Committee on Black & Indigenous Research Internships

July 2021

• Building out program model(s) for increasing the representation, and access, to Vector Institute research internships by Black and Indigenous university students.

# 10. International Joint Conference on Artificial Intelligence (IJCAI)

Student Volunteer

Yokohama, Japan. January 2021

• Hosting, managing, and controlling virtual Zoom meetings for the Tutorial sessions of IJCAI-PRICAI, 2020.

# 11. Institute of Electrical and Electronics Engineers (IEEE Windsor)

Windsor, Ontario, Canada. January 2020 - December 2020

Secretary - Windsor Section Joint Chapter, CIS11/SMC28

• Management of information for decision making in the executive committee.

- Submit members' requests and needs to the executive committee.
- Accountability, maintenance, and ownership of Section's records and correspondence.

# 12. STEM Fellowship Big Data Challenge for High School Students Research Reviewer

Toronto, Ontario, Canada. 2019 - 2020

• Review, assess, and evaluate selected research paper submissions based on the following criteria: Analysis & Techniques, Diversity & Data Representation, Results & Discussion, and Presentation & Report.

# 13. International Conference on Neural Information Processing (ICONIP)

Sydney, Australia.

Program Committee (PC) Member - Three-time Reviewer

2019 - 2021

- This is a rank 'A' conference based on CORE ranking standards. My primary assignment is to review, assess, and evaluate selected research paper submissions for originality/novelty and worthiness based on the following benchmarks, viz: presentation, innovation, technical soundness, and research-content.
- 14. **Académie Ste. Cécile International School** 925 Cousineau Road, Windsor, Ontario N9G 1V8, Canada.

  \*\*Member Panel of Judges\*\*

  2018 2020
  - Evaluation, assessment, and judgement with respect to science projects exhibited by students ahead of the Ontario-wide competition.

# 15. African Women Association of Windsor (AWAW)

Windsor, Ontario, Canada.

Member - Organizing Committee

2017 - 2019

• Planning and organizing of workshops for African youth in Windsor, Ontario, viz: Workshop - "Keeping Them out of Trouble" (2017 and 2018); Social Affair - "Mothers' Day Taste the Best of African Cuisines" (2017, 2018, 2019).

#### PROFESSIONAL EXPERIENCE

#### 1. Assistant Professor

August 2021 – Till Date

Gina Cody School of Engineering and Computer Science – Concordia University, 1455 Boulevard de Maisonneuve Ouest, Montréal, Quebec H3G 1M8, Canada.

- Teaching: Mathematics for Computer Science (COMP-232) Fall 2021, Fall 2022
- Teaching: Object-Oriented Programming (COMP-248) Winter 2022, Fall 2022, Winter 2023
- Teaching: Web Programming (SOEN-287) Winter 2022, Winter 2023

# 2. Instructor

January 2022 – April 2022

Vector Institute for Artificial Intelligence – MaRS Centre, West Tower 661, University Avenue Suite 710, Toronto, Ontario M5G 1M1, Canada.

- Teaching: Machine Learning for Black & Indigenous Program (Canada Revenue Agency Workshop) Winter 2022
- Practical/Training: Machine Learning for Black & Indigenous Program Winter 2022

# 3. Part-time Lecturer 1

August 2021 – December 2021

Department of Mathematics and Computer Science – Mount Allison University, 62 York Street, Sackville, New Brunswick E4L 1E2, Canada.

• Teaching: Introduction to Computer Science (COMP-1631) - Fall 2021

#### 4. Sessional Instructor

January 2020 – August 2021

School of Computer Science – University of Windsor, 401 Sunset Avenue, Windsor, Ontario N9B 3P4, Canada.

- Teaching: Introduction to the Internet (COMP-2057) Winter 2020
- Teaching: Social Media and Mobile Technology for End Users (COMP-2097) Summer 2020
- Workshop: Deep Learning (COMP-8997) Summer 2020
- Workshop: Using Compute Canada Cluster-based Environment (COMP-8997) Summer 2020
- Teaching: Introduction to the Internet (COMP-2057) Winter 2021
- Workshop: Deep Learning (COMP-8967) Summer 2021
- Workshop: Machine Learning and Deep Learning using Software-as-a-Service via GoogleTM Colab (COMP-8967) Summer 2021

#### 5. Research Assistant

September 2017 – September 2021

Artificial Intelligence Laboratory (ERIE 3127) - 401 Sunset Avenue, Windsor, Ontario N9B 3P4, Canada.

- Preparation of Research Grant applications: Natural Sciences and Engineering Research Council (NSERC), Ford Motor Company (FMC), New Digital Research Infrastructure Organization (NDRIO), etc.
- Research partnerships with industries: International Business Machines (IBM), Ford Motor Company (FMC), Canadian Institutes of Health Research (CIHR), Level One Robotics and Controls, etc.
- Supervise undergraduate (Bachelor's degree) students working on selected research project(s).
- Co-supervise graduate (Master's degree) students working on neural-network related tasks or projects.
- Research and experiments with respect to open problems in Social Network Analysis using real-world datasets.

#### 6. Laboratory Instructor

September 2017 – December 2019

School of Computer Science - University of Windsor, 401 Sunset Avenue, Windsor, Ontario N9B 3P4, Canada.

- Instruct, guide, and assist students during practical (programming) sessions in the laboratory.
- Conduct and grade assignments and/or examinations for undergraduate students.

#### 7. Senior Application Developer

June 2015 – September 2017

Head Office - SWIFT Networks Limited, 31 Saka Tinubu Street, Victoria Island, Lagos State, Nigeria.

- Design, development, implementation, customization, and support of web-based applications.
- System analysis and improvements.
- Working with vendors to resolve more advanced issues where and when necessary.
- Resolving escalated customer complaints.
- Implementation, testing, integration, monitoring, and support of Microsoft CRM/ERP and web applications.

#### RESEARCH GRANTS & PROJECTS

# 1. $VrooMe^{TM}$ : A Concordia Ride-Sharing Mobile App

February 2023

2023 Experiential Learning Grant

Concordia University, Montréal, Canada

- Lead Academic Supervisor: Bonaventure Chidube Molokwu
- Partner Organization: Concordia University, Montréal, Quebec, Canada
- Participants: Steven Zrihen (*Undergraduate Intern*)
- Research Grant Value: \$2,000
- Research Domain: Social Network Analysis.
- Proposition of a student-exclusive, ride-sharing mobile application,  $VrooMe^{TM}$ , for students of Concordia University (Montréal, Quebec, Canada); and this is targeted at promoting community engagement and sustainability amongst students within the Quebec community.
- $VrooMe^{TM}$  ride-sharing app also aims at reducing students' carbon footprints and saving transportation costs to-and-fro Concordia University campuses.

#### 2. Social Network Analysis and Artificial Intelligence

March 2021 - March 2023

Vector Institute for Artificial Intelligence, Postgraduate Affiliate Research Grant

Canada

- Grant Reference Number: QOCFB4
- Principal Investigator: Bonaventure Chidube Molokwu
- Research Grant Value: \$12,000
- Research Domain: Open research problems in Social Network Analysis.
- Contribute to the development of knowledge and novel applications in the fields of Deep Learning (DL) and Machine Learning (ML), as well as Artificial Intelligence (AI).
- 3. Social Network Analysis: A Heuristics & Machine Learning Approach January 2021 January 2022 Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Canada
  - NSERC Discovery Grant: RGPIN-2021-03181
  - Principal Investigator: Ziad Kobti (Ph.D. Advisor)
  - Examine and study several open (research) problems in Social Network Analysis such as: Breakup Prediction, Link Prediction, Link Dynamics and Influence, Node Classification, Trend/Pattern Analysis, Event-based Analysis and Prediction, etc.
  - Propose effective and efficient Machine Learning and Deep Learning methodologies toward resolving the aforementioned problems.
  - Employ Social Network Analysis toward resolving real-world problems.

# 4. COVID-19 Rapid Research

May 2020 - May 2021

Canadian Institutes of Health Research (CIHR)

Canada

- Funding Reference Number (FRN): VR5 172669
- Principal Investigator: Anne Snowdon
- Assemble the empirical evidence required to inform the design of supply chain processes and infrastructure within and across provincial health systems to meet the significant demands of COVID-19, currently and in future phases.
- To ensure that a resilient and secure supply of products (e.g. Personal Protective Equipment) are available to health teams and Community Health Centres (CHCs) when and where they are needed to care for every Canadian citizen.

# RESEARCH ARTICLES & PUBLICATIONS (PUBLISHED)

- 1. **Bonaventure Chidube Molokwu**. Event Prediction in Complex Social Graphs using One-Dimensional Convolutional Neural Network (28th International Joint Conference on Artificial Intelligence, IJCAI-2019).
- 2. Bonaventure Chidube Molokwu. Event Prediction in Social Graphs Using 1-Dimensional Convolutional Neural Network (32nd Canadian Conference on Artificial Intelligence, Canadian-AI 2019).
- 3. **Bonaventure Chidube Molokwu** and Ziad Kobti. Event Prediction in Complex Social Graphs via Feature Learning of Vertex Embeddings (26th International Conference on Neural Information Processing of the Asia-Pacific Neural Network Society, ICONIP-2019).
- 4. **Bonaventure Chidube Molokwu** and Ziad Kobti. Spatial Event Prediction via Multivariate Time Series Analysis of Neighboring Social Units using Deep Neural Networks (2019 International Joint Conference on Neural Network, IJCNN-2019).
- 5. **Bonaventure Chidube Molokwu** and Ziad Kobti. Social Network Analysis using RLVECN: Representation Learning via Knowledge-Graph Embeddings and Convolutional Neural-Network (29th International Joint Conference on Artificial Intelligence, IJCAI-PRICAI 2020).
- 6. **Bonaventure Chidube Molokwu**, Shaon Bhatta Shuvo, Narayan C. Kar, and Ziad Kobti. Node Classification in Complex Social Graphs via Knowledge-Graph Embeddings and Convolutional Neural Network (20th International Conference on Computational Science, ICCS-2020).
- 7. Bonaventure Chidube Molokwu, Shaon Bhatta Shuvo, Narayan C. Kar, and Ziad Kobti. Node Classification and Link Prediction in Social Graphs using RLVECN (32nd International Conference on Scientific and Statistical Database Management, SSDBM-2020).

- 8. Shaon Bhatta Shuvo, **Bonaventure Chidube Molokwu**, and Ziad Kobti. Simulating the Impact of Hospital Capacity and Social Isolation to Minimize the Propagation of Infectious Diseases (*Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining, KDD-2020*).
- 9. **Bonaventure Chidube Molokwu**, Shaon Bhatta Shuvo, Narayan C. Kar, and Ziad Kobti. Link Prediction in Social Graphs using Representation Learning via Knowledge-Graph Embeddings and ConvNet (*Proceedings of the 2020 IEEE International Conference on Systems, Man, and Cybernetics, SMC-2020*).
- 10. **Bonaventure Chidube Molokwu**. Social Network Analysis: A Machine Learning Approach (*ProQuest Dissertations Publishing, University of Windsor, UWindsor-2021*).
- 11. **Bonaventure Chidube Molokwu**, Shaon Bhatta Shuvo, Ziad Kobti, and Narayan C. Kar. Social Network Analysis using Knowledge-Graph Embeddings and Convolution Operations (*Proceedings of the 25th International Conference on Pattern Recognition, ICPR-2020*).
- 12. Akshay Shah, **Bonaventure Chidube Molokwu**, and Ziad Kobti. HRotatE: Hybrid Relational Rotation Embedding for Knowledge Graph (2021 International Joint Conference on Neural Network, IJCNN-2021).
- 13. Shaon Bhatta Shuvo, **Bonaventure Chidube Molokwu**, Ziad Kobti, and Anne Snowdon. Simulating and Predicting the Active Cases and Hospitalization Considering the Second Wave of COVID-19 (*Proceedings of the 26th IEEE Symposium on Computers and Communications, ISCC-2021*).
- 14. **Bonaventure Chidube Molokwu**, Shaon Bhatta Shuvo, Ziad Kobti, and Anne Snowdon. A Multi-Task Learning Framework for COVID-19 Monitoring and Prediction of PPE Demand in Community Health Centres (*Europe PubMed Central, Europe-PMC 2021*).
- 15. Molokwu C. Reginald, **Molokwu C. Bonaventure**, Molokwu C. Victor, Okeke C. Ogochukwu. FUSIONET: A Hybrid Model Towards Image Classification (*International Journal of Computational Intelligence and Applications*, *IJCIA-2021*).
- 16. **Bonaventure Chidube Molokwu**, Shaon Bhatta Shuvo, and Ziad Kobti. ClasReg: A Deep Learning and Heuristic Methodology for Predicting Breakups in Social Network Structures (*Journal of Computational Intelligence*, Wiley-2022).
- 17. Akshay Shah, **Bonaventure Chidube Molokwu**, and Ziad Kobti. HTransE: Hybrid Translation-based Embedding for Knowledge Graphs (2022 IEEE International Conference on Knowledge Graph, ICKG-2022).

# RESEARCH ARTICLES & PUBLICATIONS (UNDER REVIEW)

- 1. Reginald Chukwuka Molokwu, **Bonaventure Chidube Molokwu**, and Victor Chinemelu Molokwu. An Overview of Blockchain-based Application in Internet of Things (*International Joint Conference on Neural Networks*, *IJCNN-2023*).
- 2. Victor Chinemelu Molokwu, **Bonaventure Chidube Molokwu**, and Mahmoud Jamiolahmady. Label-Free AI-Based Surrogate Modelling for Highly Compressible Subsurface Flow using both Physics and Non-Physics Regularizations (*Elsevier Journal of Neurocomputing*, 2023).

# CHRONOLOGICAL LIST OF PUBLICATIONS

- 1. scholar.google.com/citations?user=Bonaventure C. Molokwu
- 2. semanticscholar.org/search?q=Bonaventure C. Molokwu

### REFERENCES/REFEREES

#### Dr. Lata Narayanan

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# Oluwasegun Makinde

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- · Address: Room 200, Canadian Mortgage and Housing Corporation (CMHC), 1000 7th Avenue SW, Calgary, Alberta T2P 5L5, Canada.

# OTHER INFORMATION

# **Immigration Status**

· Yes, I am a Citizen of Canada

# Professional Memberships

- · Professional Engineers Ontario (PEO)
- · Institute of Electrical and Electronics Engineers (IEEE)
- · Canadian Artificial Intelligence Association (CAIAC)
- · Association for Computing Machinery (ACM)
- · International Association of Computer Science and Information Technology (IACSIT)

# Languages

- · Fluent English (IELTS 7.5/9.0 Band Score)
- · Igbo
- $\cdot$  French

# **Hobbies**

- · Soccer
- $\cdot$  Chess
- · Draughts
- · Woodwork