

Carter-Beau Benson

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Skills

Programming Languages	Python, Java
Ontology Languages	OWL, RDF, RDFS, SPARQL
Logic Languages	First-Order, Description, Modal
Project Management	Git, Jira
Platforms	Protege, TopBraid Composer, Visual Studio Code
Standards	OBO Foundry, Basic Formal Ontology, Common Core Ontologies

Education

University of Buffalo (UB)	
Doctorate in Philosophy	<i>Expected 2024</i>
University of Buffalo (UB)	
Master of Arts, Philosophy	<i>2020</i>
University of Buffalo (UB)	
Bachelor of Science, Philosophy	<i>2017</i>
SUNY Schenectady	
Associate of Arts, Liberal Arts	<i>2012</i>

Projects

The Ontology of Soccer (FutOn) (*Dissertation*)

Soccer has a big data problem. The free-flowing gameplay and number of teams in nearly every country create a massive amount of data, at high speeds, and in a wide variety of structures. These factors call the question the data's veracity, as data companies cannot reasonably track all this information in a relational database. Further, these four issues combine to obscure the value of the data. Most agree there is value, but it is unclear to everyone exactly to what extent.

FutOn is the first BFO conformant ontology of soccer. FutOn uses terms from the Common Core Ontologies catalogue and the Open Biomedical and Biology library as intermediaries between BFO and FutOn to ensure interoperability with other BFO conformant ontologies and extends them when necessary to the domain of soccer. The primary focus of the dissertation project is to represent expected goals (xG) in all of its uses into BFO. Broadly speaking, xG refers to an algorithm, a mode of analysis, a predictive tool, and a general organizational strategy. Each aspect of xG is represented in FutOn and will enrich the data analytics landscape.

The Reference Ontology of Games and Sports (ROoGaS)	<i>(Dissertation)</i>
“Gamifying SPARQL for the Working Ontologist” John Beverley et. Al.	<i>(In Preparation)</i>
“Capturing the BFO Data Model with SHACL Constraints” John Beverley et. Al.	<i>(In Preparation)</i>

Awards

Outstanding TA or RA, University at Buffalo

2021-2022	\$1000
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Peter Hare Citizenship Award, University at Buffalo

2020-2021	\$1,000
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Peter Hare Citizenship Award, University at Buffalo

2021-2022	\$1,000
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Outstanding TA or RA, University at Buffalo

2022-2023	\$1,000
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SUNY TA/RA Scholarship, University at Buffalo

2018-2024	\$24,000
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6 Year Tuition/ Stipend

Presentations

Modeling Expected Goals

Common Core Ontologies Working Group	2023
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The Importance of Interoperability: A Case Study in DBpedia

Graduate Philosophy Association Lunchtime Talk	2023
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Incorporating the OBO Foundry and CCO into FutOn

UB Ontology Working Group (invited)	2023
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Ontology Workflow at UB

Institute of Artificial Intelligence and Data Science Poster Presentation (Invited)	2023
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If Autism, then Still Vaccinate

Romanell Center of Medicine and Bioethics Workshop (Invited)	2022
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Convergent Pluralism and Mandatory Vaccination

Romanell Center of Medicine and Bioethics Conference (Invited)	2021
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Clarity on Charity: Why We Should Have a Change of Heart on Organ Sales.

Graduate Philosophy Association Lunchtime Talk	2019
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Teaching Experience

University at Buffalo

Introduction to Philosophy

Critical Thinking (TA)

Introduction to Ethics

Aesthetics x2 (TA)

Bioethics x4 (TA)

Environmental Ethics (TA)

Daemen University

Bioethics x4

Service

Common Core Ontologies Working Group

Chair

Current

Enhanced Object-Based Production Conference Part 2

Lead Organizer	2024
BFO Summit Meeting	
Assistant Organizer	2023
Enhanced Object-Based Production Conference	
Lead Organizer	2023
Philosophy Graduate Student Association Lunchtime Talk	
Chair and Organizer	2021-2022
Philosophy Graduate Student Association	
President	2021-2022
Philosophy Graduate Student Association	
Vice President	2020-2021
Philosophy Graduate Student Association	
Treasurer	2019-2020
Philosophy Department	
Colloquium Assistant	2018-2020

Related Work

Related Ontology Experience	
RA to John Beverley, University at Buffalo	
Research Assistant in Ontology	2023-Current
RA to Barry Smith, University at Buffalo	
Research Assistant in Ontology	2023-Current
Department of Defense and Intelligence Community Ontology Working Group	
Member	2023-Current
Occupation Ontology Working Group	
Member	2023-Current
Common Core Ontologies The Institute of Electrical and Electronics Engineers Working Group	
Member	2023-Current

References

Barry Smith
 SUNY Distinguished Professor of Philosophy
 Ontology, Bioinformatics
phismith@buffalo.edu
 716-650-0075

John Beverley
 SUNY-Buffalo Assistant Professor of Philosophy
 Ontology, Bioinformatics
johnbeve@buffalo.edu
 773-849-4136

David Braun
 SUNY-Buffalo Romanell Chair in Philosophy
 Philosophy of Language, Mind, Logic
 716-645-0162

Neil Williams
 Suny-Buffalo Professor of Philosophy.
 Metaphysics and Philosophy of Science
 716-645-0161

Eric Merrell
 Johns Hopkins Applied Physics Lab Ontologist
Eric.Merrell@jhuapl.edu
 973-580-8622

Jonathan Vajda
 Lead Ontologist at Customs and Border Protection
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 989-506-4057