Dr. Jacob W. Archambault

Logician · Ontologist · Full-stack DevOps developer

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Education

2017	**Ph.D.**, philosophy	Fordham University, Bronx, NY

Dissertation: The development of the medieval Parisian account of formal consequence. Director: Professor Gyula Klima. Passed without corrections.

2011	**M.A.**, philosophy (cum laude)	University of Houston, Houston, TX

2009	**B.A.**, philosophy (cum laude)	Franciscan University of Steubenville, Steubenville, OH

2021 (expected)	**A.S.**, software development	Jefferson Commmunity and Technical College, Louisville, KY

Employment

May 2020- — Software developer apprentice, DevOps Applications team — Waystar

Louisville, KY. Pioneered work on porting various team projects from .NET Framework to .NET Core and on project containerization with Docker; built, deployed, and configured team projects with Azure DevOps; set up logging of automated alerts from A10 load balancers to Microsoft Teams and Splunk, and co-led company-wide training on using YAML for Azure DevOps pipeline configuration.

Aug. 2019-May 2020 — Software developer apprentice, Architecture team — Waystar

Louisville, KY. Contributed to a company-wide full-stack C# .NET framework applicant testing website implementing MVC pattern with Visual Studio and Git version control. Normalized back-end SQL Server databases and application model layer, and wrote database queries both in SQL directly and in C# with LINQ and Entity Framework. Wrote JavaScript/jQuery functions for DOM manipulation and sending/retrieving server information with AJAX, and improved HTML/CSS web accessibility and design responsiveness by adding semantic HTML, media queries, and Flexbox layouts.

2017-2018 — Philosophy, Latin, and classics teacher — Highlands Latin School

Louisville, KY. Taught college-level material in Latin, ontology, and classics at advanced private high school. Led ontology students to fully reconstruct arguments and critically explicate texts from Plato, Aristotle, Thomas Aquinas, and others. Led Latin students to translate both from and to Latin, with assignments principally focused on Caesar. By pairing classic texts with carefully designed assignments, I improved student learning outcomes while decreasing student workload, leading 90% of students to earn the highest letter grade available.

2015-2017 — Distinguished research fellow — Fordham University

Bronx, NY. Published numerous articles, book contributions, and an edited volume with publishers including Cambridge University Press, Brill and Springer, secured grants and honors from institutions including the University of Salzburg and the University of St Andrews, and presented papers at prestigious institutions across three continents, primarily in the history and philosophy of logic. For a full list of publications and presentations, see my CV.

2012-2015 — Teaching fellow — Fordham University

Bronx, NY. Performed all essential functions for teaching undergraduate core curriculum courses in two courses, Ethics and Philosophy of Human Nature. Constructed syllabi and assignments. Conducted lectures. Graded and maintained records of student assignments. Held office hours, Maintained website. 15-35 students per section, 1-2 sections per semester.

Awards and honors

2017-2018	**Ernst Mach Grant** UNIVERSITÄT SALZBURG, INSTITUT FÜR PHILOSOPHIE

9,450 €. Salzburg, Austria. Awarded for project: 'Grounding Logical Consequence'. Supervisor: Prof. Julien Murzi. Financed by the Austrian Agency for International Cooperation in Education and Research (OeAd-GmbH), Centre for International Cooperation & Mobility (Declined).

2016-2017	**Alumni dissertation fellowship.** FORDHAM UNIVERSITY

$30,450. Granted to aid completing a dissertation in the history of logic, including translations of previously untranslated early medieval logic texts.

2015-2016	**Mark and Kathryn Tomasic endowed fellowship.** FORDHAM UNIVERSITY

$26,530 and reprieve from teaching responsibilities. Granted for exemplary research in medieval philosophy.

2015	**Summer research fellowship.** FORDHAM UNIVERSITY

$4,000. Granted for manuscript research project on texts used to teach logic in medieval France.

2014	**Visiting postgraduateship** ARCHÉ RESEARCH CENTURE, UNIVERSITY OF ST ANDREWS

St Andrews, Scotland. Competitive visiting postgraduateship with University of St Andrew's Arché Research Centre for Language, Logic, Metaphysics and Epistemology. Conducted research supervised by professor Stephen Read on the history and philosophy of logic, presented research at and participated in the centre's weekly colloquia.

Select projects

2020-present	FAMILY TREE ONTOLOGY

A growing *ontology*, that is, an organized categorization of reality into various types, detailing my family tree, starting from simple relationships and defining more complex ones in terms of the simpler ones. Written in OWL/RDFS and developed with Protégé ontology editor.

2020	MUSIC ONTOLOGY

A music ontology focused on The Beach Boys' discography, detailing relations among songs, artists, albums, band members, and songwriters, among others.

2020-present	COUNTRY ONTOLOGY

An attempt at creating a highly modular ontology via the use of imports and multiple files, based on the U.S. states and their common regional divisions according to the US Census.

2020-present	AUTO LOT MVC STORE

A four-project .NET Core MVC solution consisting of a website front-end, an API project, a data access layer, and a model layer. Makes use of razor view components, custom tag helpers, exception filters, custom routing, and LINQ queries over objects linked via entity framework core to a SQL Server relational database. Expanded from a *Pro C# 7* tutorial.

Select certifications

2019	Python/SQL CODE LOUISVILLE

Completed coursework and Jupyter Notebook project analyzing consumer price index data, demonstrating facility with SQL queries, commands and joins, Python database connections and the pandas and matplotlib libraries for data analysis and visualization.

2020	C# .NET CODE LOUISVILLE

Certification received for completing coursework and a console project serializing student data gathered from user prompts to a JSON file. Developed in the Visual Studio IDE, the project's implemented C# features include LINQ queries, reflection, delegates, exception handling, and JSON serialization.

Select publications

Edited volume

2018

1. *Consequences in medieval logic. Vivarium* 56:3-4, 201-366.

Journal articles

2019

2. 'Counterpossibles and normal defaults in the *filioque* controversy'. *Logica Universalis* 13:4, 443-455.

2018

3. 'Introduction: consequences in medieval logic'. *Vivarium* 56:3-4, 201-221.

4. 'Consequence and formality in the logic of Walter Burley'. *Vivarium* 56:3-4, 292-319.

2017

5. 'Monotonic and non-monotonic embeddings of Anselm's proof'. *Logica Universalis* 11:1, 121-138.

Conference proceedings

2018

6. 'Mereological hylomorphism and the development of the medieval substitutional account of formal consequence'. In G. Klima and A. Hall (eds.), *Hylomorphism and Mereology: Proceedings for the Society of Medieval Logic and Metaphysics 15* (Cambridge Scholars), 81-103.

Web publications

2019

7. 'Object-oriented programming objects aren't objects'. *Medium.com, programming*. May 11.

8. 'On semantic ambiguity in Anselm of Canterbury's ontological argument'. *Medium.com, philosophy*. May 8.

Skills

DevOps	Docker, Azure DevOps, YAML, Git, GitHub actions, Agile development
C# .NET	ASP.NET Core, Entity Framework Core, LINQ, Blazor, WPF
SQL	Microsoft SQL Server, SQL Server Management Studio, SQLite, MySQL
Ontology/Knowledge Engineering	OWL, RDF, Protégé, SWRL, SparQL
Java	Intellij Idea, Gradle, Maven, Eclipse
Data analysis	Python, Pandas, Matplotlib, Jupyter Notebooks
Data serialization	JSON, AJAX
Front-end web development	HTML, CSS, Bootstrap, JavaScript, jQuery, semantic HTML, responsive web design, Chrome dev tools, WordPress

References

Brian Donohue	Graham Priest	Gyula Klima
Ontology & Semantics	Distinguished Professor of	Professor of Philosophy
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