

# Dr. Jacob W. Archambault

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Philosopher, logician and full stack C# .NET Core developer

## Education

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### Fordham University

Bronx, NY

*PhD, philosophy; Doctoral certificate, medieval studies*

2017

Dissertation title: 'The development of the medieval Parisian account of formal consequence.' Supervisor: Professor Gyula Klima.

## Distinguished fellowships and competitive grants

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### Universität Salzburg, Institut für Philosophie

Salzburg, Austria

*Ernst Mach Grant, 9,450 €*

2017-2018

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).

### Fordham University Graduate School of Arts and Sciences.

Bronx, NY

*Alumni Dissertation Fellowship, \$30,450*

2016-2017

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

### Fordham University Graduate School of Arts and Sciences

Bronx, NY

*Mark and Kathryn Tomasic Research Fellowship, \$26,530*

2015-2016

Granted for exemplary research in medieval philosophy.

### Fordham University Graduate School of Arts and Sciences

Bronx, NY

*Summer Fellowship, \$4,000*

2015

Granted for manuscript research project on texts used to teach logic in medieval France.

## Additional skills

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**Foreign Languages:** Latin (full professional proficiency), French (reading fluency, speaking ability), German (reading competence), Ancient Greek (reading competence).

**Mathematical logic:** Proficient with proof calculi and semantics for first- and second-order classical logic, free logic, various normal and non-normal modal logics, many-valued and fuzzy logics, relevant logics, and non-monotonic logics.

**LaTeX 2<sub>ε</sub>:** Typesetting language used with BibTeX bibliography software to write and publish research articles with mathematical notation, graphs, tables, and automatically generated bibliographies.

**Paleography:** I can read, date, and determine the rough provenance of medieval Latin manuscripts.

## Work experience

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### Waystar

Louisville, KY

*DevOps Applications team*

May 2020-

Led 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 to Microsoft Teams and A10 load balancers.

*Software developer apprentice, Architecture team*

Aug. 2019-May 2020

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.

### Highlands Latin School

Louisville, KY

*Ontology, Latin, and classical political philosophy teacher*

2017-2018

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.

### Fordham University

Bronx, NY

*Distinguished research fellow*

2015-2017

Published numerous [articles](#), [book contributions](#), and an [edited volume](#) with publishers including Cambridge University Press, Brill and Springer, 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](#).

## Select projects

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*Personal ontology*

2020-present

A growing [ontology](#), that is, an organized categorization of reality into various types, starting from simple information about myself and branching out via logical entailments. Written in OWL/RDFS and developed with Protégé ontology editor.

## References

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Brian Donohue

Ontology & Semantics Manager,  
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## Semantic Arts

October 12, 2020

11 Old Town Square #200  
Fort Collins, CO 80524

Dear Sir or Madam,

I am writing in application to the position of data-centric architecture developer at Semantic Arts. In what follows, I'll explain how my background in formal logic, ontology, and programming would contribute to working with your team in Fort Collins.

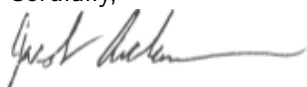
I hold a PhD in philosophy, specializing in logic, and a doctoral certificate in medieval philosophy from Fordham University. My [dissertation](#) traced the earliest development of the concept of formal consequence in late medieval logic, demanding broad knowledge of semantics for classical and non-classical logics as well as expertise with translating between natural and formal languages. Since 2014 I have published an [edited volume](#) and [numerous journal articles](#) and [book contributions](#) in ontology, the philosophy of logic, and the history of science, and presented papers introducing new results in logic, semantics, and medieval philosophy across three continents.

I currently work as a full-stack C# .NET developer on the DevOps application team for Waystar, a health care solutions company that automates connecting patient and insurance provider information for hospitals. In this position, I've regularly written SQL queries, normalized backend SQL databases, and modeled different business domains in both SQL database tables and C# classes mapped to these via the Entity Framework ORM. In addition to this, I have practice with both RDFS, Owl and SparQL syntax and semantics broadly and with specific ontology frameworks such as KR and BFO.

Prior to my current position, I taught ontology, Latin, and classical political theory at Highlands Latin School, an advanced classical high school in Louisville, Kentucky. My ontology teaching focused on categories of being in Aristotle's *Metaphysics* and on the full reconstruction of multi-part textual arguments given only in enthymematic form in classic texts such as Plato's *Euthyphro* and Thomas Aquinas' *Summa Theologiae*. By year's end, I had led sophomores and juniors who began the academic year unable to explain how the word 'therefore' linked what preceded it to what came after it to write work at a level that I only began to see among my peers in graduate school.

The above skills answer directly to the need for extensive experience with ontologies, formal semantics, and natural and formal languages that would benefit this position best. A copy of my resume with my contact information is prepended to this letter. Should you consider me for the data-centric architecture developer opening, I would be happy to hear from you.

Cordially,

A handwritten signature in dark ink, appearing to read "Jacob W. Archambault", with a long horizontal flourish extending to the right.

**Dr. Jacob W. Archambault**