

# AMELIA POMPILIO

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(+1) 937-414-3665 ◊ apompi2@uic.edu

## EDUCATION

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### University of Illinois at Chicago

Graduate Student in Pure Mathematics PhD Program  
Department of Mathematics, Statistics, and Computer Science

*August 2019 - Present*

### University of Dayton

B.S. in Mathematics

*August 2015 - May 2019*

## PUBLICATIONS

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Jeffrey A. Bennett\*, Jonathan D. Ogland-Hand, Kyle J. Cox, Peter J. Johnson, Erin J. Middleton, Amelia I. Pompilio, Samanwita Samal, Carl J. Talsma, Velimir V. Vesselinov, Kevin M. Ellett, Richard S. Middleton, *Beam Me Up SCO<sub>2</sub>T<sup>PRO</sup>: A Comparison to the FE/NETL CO<sub>2</sub> Saline Storage Cost Model and Updates on Tool Development.* (August 26, 2022). Proceedings of the 16th Greenhouse Gas Control Technologies Conference (GHGT-16) 23-24 Oct 2022. (Link)

## EXPERIENCE

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### Research Associate, Carbon Solutions LLC

Modeled geological dynamics of carbon sequestration using machine learning tools in Python

*Summer 2022*

## TEACHING

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### UIC Young Scholars Program

#### MATH 294 Abstract Algebra

Instructor of Record for Math 294, a workshop in support of Math 330 Abstract Algebra  
Instructor for summer high school math program; Co-Lead instructor in 2023 and 2022

*Summer 2024 2023, 2022, and 2021*

*Spring 2024*

#### MATH 110 College Algebra

Teaching Assistant

*Spring 2022*

#### MATH 090 Intermediate Algebra

Instructor of Record

*Fall 2021*

#### MATH 211 Calculus III ESP

Instructor of Record for Emerging Scholars Calculus 3 Workshop

*Fall 2020, Spring 2021*

#### MATH 210 Calculus III

Teaching Assistant

*Fall 2020, Spring 2021*

#### MATH 181 Calculus II

Teaching Assistant

*Fall 2019, Spring 2020*

## OUTREACH AND EXTRACURRICULAR INVOLVEMENT

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Math Circles of Chicago Teacher at Gads Hill Community Center

Internship Network in the Mathematical Sciences participant

Mathematics Graduate Student Association Co-President (2020-2021)

Math Circles of Chicago Teacher for University of Chicago's Young Scholars Program