

DANIEL KITECK

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Education

Ph.D. Mathematics, University of Kentucky, 2008
Advisor: Edgar E. Enochs Dissertation: *Covers of Models*

M.A. Mathematics, University of Kentucky, 2003

B.A. Mathematics, Asbury University, 2001

Occupation

Associate Professor of Mathematics, Indiana Wesleyan University, Fall 2014-Present

Assistant Professor of Mathematics, Indiana Wesleyan University, Fall 2008-2014

Teaching Assistant, University of Kentucky, August 2001-August 2008
Primary instructor for nine different classes; Recitation leader for three classes

Teaching Experience

Intermediate Algebra

Sample Survey

Contemporary Mathematics (“Liberal Arts Mathematics”)

Essence of Mathematics (Inquiry-Based Learning general-education class I created;
the class also served as an introduction to college class)

College Algebra

College Algebra with Modeling (Basic statistics included)

General Statistics

Trigonometry

Precalculus

Mathematics for Elementary Teachers I

Mathematics for Elementary Teachers II

Mathematics for Middle School Teachers (I created)

Applied Calculus

Discrete Mathematics (serves as introduction to proofs and the math department)

Calculus I

Calculus II

Calculus III

Differential Equations

Teaching Experience, continued

Linear Algebra

Transitions to Advanced Mathematics (introductory probability, number theory, and Euclidean/non-Euclidean geometry, with an emphasis on proofs)

Mathematical Modeling (calculus-based major class)

Modern Geometry

History of Mathematics (upper-level major class)

Abstract Algebra I

Abstract Algebra II

Senior Seminar (philosophy and individual final project emphasized)

Independent Study of Game Theory

Individual Undergrad Original Research (six separate student projects)

Observing ~2-3 practicum students or student teachers each year in middle/high schools

Honors

Project NExT (National Chapter) Fellow, 2009 cohort

Nationally renowned mathematical professional development for new Ph.D. 's

Algebra Cubed Fellow, Fall 2007, Spring 2008

NSF-funded; worked with middle school math teacher in rural Kentucky, went to two class days per week.

Daniel Reedy Quality Fellowship, University of Kentucky, 2001-2003

Used to attract promising graduate students

Publication

“A 21-Vertex 4-Chromatic Unit-Distance Graph of Girth 4”

Ball State Mathematics Exchange (a peer-reviewed journal)

Co-authored by myself and my undergraduate student Kourtney Payne

Future Publication

“Losing Your Marbles: An Analysis of Abalone”

Co-authored by myself and my undergraduate student Luke Hayden

(Being prepared for submission)

Research Interests

Mathematics education (K-12, university education); undergraduate research (advisor of six separate original research projects); philosophy of mathematics; abstract algebra

Conference Presentations

“Ontology of Numbers”

15-minute talk

Talk at Indiana tri-section (w/ KY & OH) MAA spring meeting, March 2025

“Great Mathematicians”

Poster on what mathematicians students should know in History of Mathematics
Mathfest, Mathematical Association of America, Aug 2019

“Writing on the Mathematics of a Great Mathematician from History”

15-minute talk

Mathfest, Mathematical Association of America, July 2017

“God: One, Part Two”

15-minute Talk

Association for Christians in the Mathematical Sciences, May 2017

“Inquiry-Based Learning General Education Math Class”

Talk at Indiana section of MAA spring meeting, March 2016

“God: One”

15-minute Talk

Association for Christians in the Mathematical Sciences, May 2015

“An Inquiry Based Learning Approach to Abstract Algebra”

25-minute talk and demonstration

17th Annual Legacy of R.L. Moore National Conference, June 2014

“Inverted Classroom in Abstract Algebra”

15-minute Talk

Association for Christians in the Mathematical Sciences, May 2013

“Virtual Pin Board Motivating Gen Ed Group Project and Connecting Math Majors.”

MAA contributed paper session, Joint Mathematics Meeting, Jan 2012

“Covers for Interpretations”

Poster at joint Meetings, Jan 2009

“Covers of Models”

Talk at Indiana section of MAA fall meeting, Oct 2008

Conference Presentations, continued

“Covers for Interpretations”

AMS contributed paper session, Joint Mathematics Meetings, Jan. 2008

“Learning and Math Graduate Students in K-12 Classrooms”

Panel member focusing on student and teacher content knowledge

AMS special session, Joint Mathematics Meetings, Jan. 2008

Also numerous presentations at student seminars at the University of Kentucky and Indiana Wesleyan University

Grant Received

\$2,500, Academy for Inquiry-Based Learning

Funded by the Education Advancement Foundation

For developing and teaching a Liberal Arts College Mathematics Course

Summer, 2015; Course taught fall 2015

Conference Proceedings

“God: One”

Conference Proceedings of the Association of Christians in the Mathematical Sciences
2015

Student’s Publication

My undergraduate student, Tyler Carrico, original research article

“The Probability of Randomly Generating Finite Abelian Groups”

Involve: a Journal of Mathematics

2013

From original research I oversaw

Research Student’s Work Online

Correcting A059103 in “The On-Line Encyclopedia of Integer Sequences”

Matthew McAndrews

2016

Selected Professional Conferences Attended

(also active in Indiana MAA Section, usually attending one or two conferences each year)

2024 National Mathfest of the Mathematical Association of America

(also 2009, 2010, 2011, 2017, 2019)

2019 Kuyers Institute for Christian Teaching & Learning (Calvin College) Conference

(also 2015, 2017)

Selected Professional Conferences Attended, continued

- 2019 Association of Christians in the Mathematical Sciences: national conference
(also 2009, 2013, 2015, 2017)

- 2017 Midwest History of Mathematics Conference

- 2016 Miami University annual conference
(also 2009-2012)

- 2015 ACMS (see above) Pre-Conference for Professional Development

- 2014 17th Annual Legacy of R. L. Moore: National Mathematics Pedagogy Conference

- 2013 POGIL (Process Oriented Guided Inquiry Learning) regional workshop, Ohio

- 2012 Council for Christian Colleges and Universities national new faculty conference

- 2012 National Joint Mathematics Meeting
(also 2009, 2010)

- 2011 Science, Faith, and Pedagogy: national conference

- 2011 National Council of Teachers of Mathematics: national conference

Memberships

American Mathematical Society

Mathematical Association of America

Association of Christians in the Mathematical Sciences

Computer Experience

LaTeX, Matlab, Maple, SageMath/CoCalc

Service

Faculty Development Committee (of College of Arts and Sciences)
Fall 2023-Spring 2025
Indiana Wesleyan University
Chair

Service, continued

Intercultural Fellow
Fall 2022-Spring 2025
Indiana Wesleyan University

Honors College Committee
Fall 2019-Spring 2021
Indiana Wesleyan University

Leader for High School Math Day
Led event with interesting math activities for 100-150 local high school students
Partnered with another local university (we alternate holding event)
2019 (Volunteered with this each year since fall 2015)

Assessment Fellow, Division of Mathematics and Computer Information Sciences
Overseer of assessment of division programs, such as majors in Mathematics Department
Spring 2013-Spring 2015; Summer 2017-Spring 2024
Indiana Wesleyan University

Safety and Security Committee
Fall 2018-present
Indiana Wesleyan University

Academic Affairs Council, fall 2017-spring 2018
Indiana Wesleyan University

Chair, Indiana Section of MAA, Fall 2016-Spring 2017
Organized the Fall 2016 and Spring 2017 Indiana conferences

Coordinator, Department of Mathematics, Fall 2010-Spring 2015
Leading meetings, instructor assignments, curriculum development, etc.
Indiana Wesleyan University

Global Studies Committee, 2012-2014
Indiana Wesleyan University

Spiritual Life Committee, 2012-2015
Indiana Wesleyan University

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Active in ministry such as leading children's Sunday School and men's small group
Exit 59 Church, Gas City, Indiana 2009-present

Led panel on interdisciplinary research and teaching for mathematics
Organized by Indiana section of Project NExT
Indiana section of MAA spring meeting, April 2010

Task Force member for developing School of Life Foundations, Fall 2009
Indiana Wesleyan University

References

Dr. Melvin Royer
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