

Theodore J. Rupnow

310 W 38th St
Kearney, NE 68845

Email: rupnowtj@unk.edu
Phone: 815-990-7225

Education

Ph.D. in Mathematics Education

December 2016

Illinois State University, Normal, Illinois

Phares O'Daffer Fellow *2013-2014*

Graduate Assistant for Children's Measurement Project *2014-2015*

Dissertation: Secondary Mathematics Teachers' Learning Through Practice: The Case of Rudy

M.Ed. in Learning and Technology

February 2011

Western Governors University, Online

Capstone Project: Teaching Geometric Proof in High School Geometry

B.A. in Mathematics/Secondary Education

May 2008

Trinity International University, Deerfield, Illinois

Summa Cum Laude with Completion of Honors Program

Senior Honors Project: Mathematics Anxiety

Teaching Experience

Assistant Professor

August 2016 – Present

University of Nebraska at Kearney, Kearney, Nebraska

- MATH 230 Math for Elementary Teachers I
- MATH 330 Math for Elementary Teachers II
- MATH 430 Middle School Math
- MATH 104 Concepts in Mathematics and Statistics
- MATH 102 College Algebra
- MATH 871 Topics in Math: Experimentation, Conjecture, and Reasoning for Teachers

Graduate Student

August 2013 – May 2016

Illinois State University, Normal, Illinois

Courses Taught: Dimensions of Numerical Reasoning

Courses Co-Taught: Teaching Mathematics in the Secondary School, Mathematical Problem Solving Using Technology, Mathematics for Secondary Teachers: A Capstone Experience

Teacher's Assistant (Part-time)

August 2013 – June 2014

Regional Office of Education #17 Clean Start Program, Bloomington, Illinois

Program: School program at a residential facility for teen males receiving treatment for substance abuse

High School Mathematics Teacher

August 2011 – June 2013

Sahel Academy, Niamey, Niger, West Africa

Courses: Algebra I (IGCSE), Geometry (IGCSE), Algebra II, Precalculus, Calculus, Economics, Physics, Christian Leadership, Introduction to Philosophy

High School Mathematics Teacher

August 2008 – June 2011

Ralston High School, Ralston, Nebraska

Courses: Prealgebra, Algebra I, Geometry, Algebra II, Honors AP Calculus AB

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Publications

Peer-Reviewed Journal Articles

Nebesniak, A., Gomez-Johnson, K., & Rupnow, T. J. (Submitted). The impact of professional development partnerships on elementary math teacher beliefs and practices during curriculum change. *Professional Development in Education*.

Rupnow, T. J. (Submitted). Preservice teachers' whole number subtraction problem posing. *Journal of Mathematics Education at Teacher's College*.

Rupnow, T. J. & Barker, D. (Submitted). A mathematics teacher's learning through Reflection-in-Action. *Perspectives in Learning*.

Gomez-Johnson, K., Nebesniak, A., & Rupnow, T. J. (2019). District-university collaborations to support reform-based mathematics curriculum implementation. *Journal of Mathematics Education at Teacher's College*, 10(1), 17–20.

Peer-Reviewed Book Chapter

Barker, D., Winsor, M., Kirwan, J. V., & Rupnow, T. J. (Accepted). An analytical framework for the study of knowledge integration. In T. Lehmann (Ed.), *International Perspectives on Knowledge Integration*. Brill | Sense.

Peer-Reviewed Published Conference Proceedings

O'Dell, J. R., Barrett, J. E., Cullen, C. J., Rupnow, T. J., Clements, D., Sarama, J., Rutherford, G., Beck, P. S. (2017). Using a Virtual Manipulative Environment to Support Students' Organizational Structuring of Volume Units. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1329–1336). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.

O'Dell, J. R., Rupnow, T. J., Cullen, C. J., Barrett, J. E., Clements, D., Van Dine, D. W., Sarama, J. (2016). *Developing an Understanding of Children's Justifications for the Circle Area Formula*. In M. B. Wood, E. E. Turner, M. Civil, J. A. Eli (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 235–242). Tucson, AZ: University of Arizona.

Rupnow, T. J., Cullen, C. J., Barrett, J. E., Beck, P. S., Clements, D., Sarama, J. (2015). Children's Three-Dimensional Mental Structuring using a Dynamic Computer Environment. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 304–307). East Lansing, MI: Michigan State University.

University Archives

Rupnow, T. J. (2016). *Secondary Mathematics Teachers' Learning Through Practice: The Case of Rudy* (Doctoral dissertation). Retrieved from ISU ReD.

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Presentations

- Barrett, J. E., Rupnow, T. J., O'Dell, J. R., Cullen, C. J., Sarama, J., Clements, D. H. (2019, March). Investigating Children's Structure, Interpretation and Representation of Space with an Intervention for Measuring Prism Volume. In D. H. Clements (Chair), *Development, Refinement, and Evaluation of Learning Trajectories for Geometric Measurement*. Symposium conducted at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- Rupnow, T. J. (2018). *Investigating Conic Sections*. Session presented at the annual conference of the Nebraska Association of Teachers of Mathematics, Kearney, NE, September 20–22, 2018.
- Rupnow, T. J., Barker, D. (2018). *Informal Reflection as a Stimulus for Teacher Learning*. Session presented at the annual conference of the Association of Mathematics Teacher Educators: Houston, TX, February 8–10, 2018.
- Rupnow, T. J., Cullen, C. J., Barrett, J. E., Beck, P. S., (2016). *Students' Reasoning about Volume Structuring: Right and Oblique Prisms*. Paper presented in a Roundtable Session at the annual conference of the American Education Research Association: Washington, DC, April 8-12, 2016.
- Beck, P. S., Barrett, J. E., & Rupnow, T. J. (2016). *Volume Formulas...Are They All Right?* Session presented at the annual conference of the National Council of Teachers of Mathematics: San Francisco, CA, April 13–16, 2016.
- Cullen, C. J., Van Dine, D. W., Barrett, J. E., Clements, D.H., Rupnow, T. J., Sarama, J. (2016). *Structuring Two and Three-Dimensional Space: A Focus on Representations*. Research Symposium presented at the research conference of the National Council of Teachers of Mathematics: San Francisco, CA, April 11-12, 2016.
- Beck, P. S., Cullen, C. J., Barrett, J. E., & Rupnow, T. J. (2015). *Measuring the Base and Height of Triangles*. Session presented at the annual conference of the Illinois Council of Teachers of Mathematics: Tinley Park, IL, October 23–24, 2015.
- Rupnow, T. J., Cullen, C. J., Barrett, J. E., & Beck, P. S. (2015). *Measurement as a Concrete Introduction to Variable*. Session presented at the annual conference of the Illinois Council of Teachers of Mathematics: Tinley Park, IL, October 23–24, 2015.
- Rupnow, T. J., Cullen, C. J., Barrett, J. E., & Beck, P. S. (2015). *Measurement as a Concrete Introduction to Variable*. Presentation at the weekly meeting of the Group for Educational Research in Mathematics (GERM) at Illinois State University: Normal, IL, October 16, 2015.
- Rupnow, T. J., Barker, D., Graziano, V. (2015). *Knowledge Integration and Decision-Making: A Tale of Two Teachers*. Presentation at the weekly meeting of the Group for Educational Research in Mathematics (GERM) at Illinois State University: Normal, IL, October 16, 2015.

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Presentations Continued

Barrett, J. E., Beck, P. S., Rupnow, T. J., & Cullen, C. J. (2014). *The Development of a Volume Microgenetic Study*. Presentation at the weekly meeting of the Group for Educational Research in Mathematics (GERM) at Illinois State University: Normal, IL, November 14, 2014.

Nickels, M., & Rupnow, T. J. (2014). *Scratch Math*. Workshop presented at the annual conference of the Illinois Council of Teachers of Mathematics: Tinley Park, IL, October 17–18, 2014.

Nickels, M., & Rupnow, T. J. (2014). *Mindstorms and Mathematics*. Workshop presented at the annual conference of the Illinois Council of Teachers of Mathematics: Tinley Park, IL, October 17–18, 2014.

Service

College Committees

Recruitment and Retention Task Force (COE) 2017-Present

Department Committees

Recruitment and Retention Committee 2017-Present
Search Committees 2017-2018, 2018-2019
Policy and Planning 2017-2018 (Chair), 2018-2019
Peer Review 2017-2018, 2018-2019
Assessment 2017-2018, 2018-2019
Academic Programs Committee 2016-2017 (Chair)

University Service

Productive Dialogues Group Member 2020-Present

Student Organization Advising

Secondary Educators' Club Founding Advisor 2018-Present

Academic Advising

Consistent load of 8-10 Mathematics/Secondary Majors 2017-Present

Reviewing

Invited Reviewer for Cognition and Instruction

Reviewer for the 38th annual meeting of PME-NA.

Invited Reviewer for The Mathematics Enthusiast selected articles for a Special Issue

Professional Memberships

Association of Mathematics Teacher Educators 2017-present
National Council of Teachers of Mathematics 2015-present
Nebraska Association of Teachers of Mathematics 2017-present