

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. (2021). A mathematics teacher's learning through Reflection-in-Action. *Perspectives in Learning*, 19(1), pp. 65–83.

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. (2020). Searching for the key to knowledge integration: A lens to detect the promotion and use of integrated knowledge. 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

- Gomez-Johnson, K., Nebesniak, A., & Rupnow, T. J. (2021). *Powerful Partnerships: Leveraging District and University Pairings to Improve Teacher Effectiveness*. Pre-recorded session presented at the National Council of Teachers of Mathematics (NCTM) Virtual Annual Meeting, April 21 – May 1, 2021.
- 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.

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Presentations Continued

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.

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

Department Committees

Recruitment and Retention Committee	2017-Present
Search Committees	2017-2018, 2018-2019
Policy and Planning	2017-2018 (Chair), 2018-2019, 2019-2020, 2020-2021, 2021-2022
Peer Review	2017-2018, 2018-2019, 2019-2020 (Chair)
Assessment	2017-2018, 2018-2019, 2019-2020
Academic Programs Committee	2016-2017 (Chair), 2020-2021 (Chair), 2021-2022 (Chair)
Faculty and Student Affairs	2016-2017, 2020-2021, 2021-2022

University Service

Faculty Senate Academic Affairs Committee	October 2020-Present
Productive Dialogues Group Member	January 2020-Present
General Studies Working Group	Fall 2019
Recruitment and Retention Task Force (COE)	2017-2020

Student Organization Advising

Secondary Educators' Club Founding Advisor	August 2018-Present
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Academic Advising

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