Curriculum Vitae

Sam Prough

Postdoctoral Researcher (they/them)

School of Education, University of Delaware 16 W. Main St., Newark, DE 19716

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EDUCATIONAL EXPERIENCES

University of Wisconsin-Madison, Madison, WI Doctor of Philosophy in Mathematics Education	September 2016 - May 2021
Purdue University, West Lafayette, IN Master of Science in Education	June 2012 - August 2014
Valparaiso University, Valparaiso, IN Bachelor of Science in Mathematics and Physics	September 2008 - May 2012

PROFESSIONAL EXPERIENCES

University of Delaware	
Postdoctoral Fellow	September 2021 - present
University of Wisconsin-Madison	
Research Assistant - JSMF project	December 2018 - August 2021
Elementary Education Supervisor	January 2021 - May 2021
Teaching Assistant	January 2019 - January 2021
Elementary Education Supervisor	January 2017 - January 2019
Research Assistant - Project LEAP	September 2016 - August 2018
Plymouth High School Mathematics Teacher	August 2012 May 2016
	August 2013 - May 2016
Lead School Mathematics Curriculum Designer	August 2014 - May 2015
Valparaiso University Research Assistant - Astrophysics	May 2011 - August 2011
Southern Illinois University at Carbondale Research Assistant - Physics and Material Chemistry	May 2010 - August 2010

TEACHING EXPERIENCES

ELEMENTARY & POSTSECONDARY:

January 2017 - January 2019 June 2015 - May 2016 August 2013 - May 2016
June 2015 - May 2016
January 2017 - January 2019
January 2017 - January 2019
January 2019 - January 2020
August 2023 - present January 2020 - December 2020
January 2021 - May 2021
September 2022 - present
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University of Delaware, Newark, DE	
Spencer Small Grant, application submitted	December 2022

Sam Prough sprough@udel.edu		
University of Wisconsin-M a Ford Foundation Fellowship, I Curriculum and Instruction c	nonorable mention	March 2020 March 2019
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Purdue University, West Lafayette, IN

Woodrow Wilson Teaching Fellowship

June 2012

PEER REVIEWED PUBLICATIONS:

- Prough, S. (2022). Whose interpretation matters? Centering participants through observation debrief. *American Journal of Qualitative Research, 6*(3), 60-73. <u>https://doi.org/10.29333/ajqr/12440</u>
- Prough, S., Gibbons, L., & Wilhelm, A.G. (2022). Supporting coherence in classroom discussions across content areas. *AMTE Connections*. <u>https://amte.net/connections/fall-2022</u>
- Prough, S. & Cordero-Siy, E. (2022). Seeing the colors of ourselves and others. In C. Koestler, J.
 Ward, M. del Rosario Zavala, T. Bartell, & B.R. Lawler (Eds.), *Early elementary mathematics lessons to explore, understand, and respond to social injustice* (pp. 158 166). Corwin.
- Kazemi, E., Ghousseini, H., Cordero-Siy, E., Prough, S., McVicar, E., & Resnick, A.F. (2021). Supporting teacher learning about argumentation through adaptive, school-based professional development. ZDM. <u>https://doi.org/10.1007/s11858-021-01242-5</u>

Under review/proposals accepted:

- Wilhelm, A.G., Prough, S., Memmolo, R., Gibbons, L. (2023, proposal accepted). Assessing elementary teachers' discussion practices across disciplines. In *Edward Elgar Handbook on Classroom Observation*.
- Prough, S. (2023, review decision, revisions). What counts as math?: Recognition of mothers' mathematical activity. *Journal of Mathematical Behavior*.
- Prough, S., Webster, A., & Gibbons, L. (2023, under review). The context and development of teachers' collective noticing on students' thinking. *Educational Studies in Mathematics*.
- Prough, S. (2023, review decision, revisions). Understanding parents' mathematical interaction with young children. *Educational Studies in Mathematics*.
- Prough, S. (2023, review decision, revisions). The pervasive whiteness in expectations of motherhood and parental involvement in schooling. *Whiteness and Education*.

PEER REVIEWED PROCEEDINGS:

- Prough, S., Webster, A., & Gibbons, L. (2022). Teacher opportunities to interpret and respond to children's mathematical ideas. In A.E. Lischka, E.B. Dyer, R.S. Jones, J.N. Lovett, J. Strayer, S. Drown (Eds.) *Critical Dissonance and Resonant Harmony: Proceedings of the 44th Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1529 1530). Nashville, TN. <u>https://doi.org/10.51272/pmena.44.2022</u>
- Prough, S. (2022). The competing expectations of motherhood and mathematics: Internalized gendered and racialized narratives within. In A.E. Lischka, E.B. Dyer, R.S. Jones, J.N. Lovett, J. Strayer, S. Drown (Eds.) *Critical Dissonance and Resonant Harmony: Proceedings of the 44th Meeting of the North American Chapter of the International Group for the Psychology of*

Mathematics Education (pp. 477 - 486). Nashville, TN. https://doi.org/10.51272/pmena.44.2022

- Prough, S. (2021). Mathematical mothers: Investigating shifts in perspective around what counts as mathematics. In D. Olanoff, K. Johnson, & S. Spitzer (Eds.) *Productive Struggle: Persevering Through Challenges: Proceedings of the 43rd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 775 - 783). Philadelphia, PA.
- Cordero-Siy, E., Prough, S., Ghousseini, H., & Alapala, B. (2021). Identifying and recontexualizing problems of practice in learning to facilitate discussions with argumentation. In D. Olanoff, K. Johnson, & S. Spitzer (Eds.) *Productive Struggle: Persevering Through Challenges: Proceedings of the 43rd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 672 681). Philadelphia, PA.
- Prough, S. (2020). Mother-centered understanding of mathematical interactions with children: Pursuing positive intent. In Sacristán, A.I., Cortés-Zavala, J.C. & Ruiz-Arias, P.M. (Eds.). Mathematics Education Across Cultures: Proceedings of the 42nd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 1405 - 1409). Mexico. Cinvestav/AMIUTEM/PME-NA. https://doi.org/10.51272/pmena.42.2020
- Prough, S., Cordero-Siy, E., McVicar, E., Ghousseini, H., & Kazemi, E. (2020). "This is you. This is your family.": Case study on attending to mathematical language development. In Sacristán, A.I., Cortés-Zavala, J.C. & Ruiz-Arias, P.M. (Eds.). Mathematics Education Across Cultures: Proceedings of the 42nd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 1912 1916). Mexico. Cinvestav/AMIUTEM/PME-NA. https://doi.org/10.51272/pmena.42.2020
- Ghousseini, H., Kazemi, E., Prough, S., & Resnick, A.F. (2019, November 14-17). An investigation of teachers' sensemaking around facilitating mathematical argumentation. In Otten, S., Candela, A. G., de Araujo, Z., Haines, C., & Munter, C. (2019). Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 558-562). St Louis, MO: University of Missouri. https://www.pmena.org/pmenaproceedings/PMENA%2041%202019%20Proceedings.pdf
- Torres, R.V., Prough, S., Strachota, S., Stephens, A., Sung, Y., Gardiner, A.M., Blanton, M., Knuth, E. (2019, April 4-9). Describing the unknown: Moving toward variable notation and algebraic thinking in kindergarten. Paper presented at AERA, Toronto.
- Prough, S., Strachota, S., Veltri, R., Isler, I., Blanton, M., Gardiner, A., Knuth, E., & Stephens, A. (2017, October 5-8). *Fostering Generalizations: a classroom discourse analysis*. In Galindo, E. & Newton, J. (2019). Proceedings for the thirty-ninth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics (pp. 287-290). Indianapolis, IN: Purdue University.
 - https://www.pmena.org/pmenaproceedings/PMENA%2039%202017%20Proceedings.pdf
- Veltri, R., Prough, S., Strachota, S., Knuth, E., Stephens, A., Stylianou, D., Blanton, M., Stroud, R., & Gardiner, A. (2017, October 5-8). *The Impact of a Teacher-led Early Algebra Intervention*. In Galindo, E. & Newton, J. (2019). Proceedings for the thirty-ninth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics (p.

334). Indianapolis, IN: Purdue University.

https://www.pmena.org/pmenaproceedings/PMENA%2039%202017%20Proceedings.pdf

Under review:

- Wilhelm, A.G., Prough, S., Gibbons, L. (2023, submitted). Working across content areas to support teachers' improvement of mathematics classroom practice. Paper submitted at ICME, Sydney AU
- Cordero-Siy, E., Prough, S., & Ghousseini, H. (2023, submitted). Facilitating mathematics discussions: Case study of attending to mathematical language and mathematical development and p-articipation. In C. Grant (chair), *Equity and "core" teaching practices across disciplines: Bridging constructs and communities to support students' flourishing*. [Symposium]. Paper submitted at AERA, Philadelphia.
- Ghousseini, H., Prough, S., Cordero-Siy, E. (2023, submitted). Identifying and recontextualizing problems of practice using representations of leading classroom mathematics discussions. In C. Monte-Sano (chair), *Representations of practice to scaffold teacher learning to enact equitable and disciplinary classroom discussions*. [Symposium]. Paper submitted at AERA, Philadelphia.
- Kavanagh, S.S., Prough, S., Guillotte, A., Wilhelm, A.G., Gibbons, L., & Manz, E. (2023, submitted).
 What distinguishes a literacy discussion?: Elementary teachers' visions of classroom discussion across the content areas. In A. Stornaiuolo (chair), *Discussions in the humanities*. [Symposium]. Paper submitted at AERA, Philadelphia.
- Marianno, L. & Prough, S. (2023, submitted). *Elementary teachers' images of equity: Recognizing race, gender, and power in classroom discussions.* Paper submitted at AERA, Philadelphia.
- Pinilla, R.K., Prough, S., & Young, K. (2023, submitted). *Extending teacher noticing frameworks to conceptualize content-based teacher noticing*. Paper submitted at AERA, Philadelphia.
- Prough, S. [chair]. (2023, submitted). *Supporting educators to facilitate dialogic talk across content and context*. [Symposium]. Papers submitted at AERA, Philadelphia.

ACADEMIC PRESENTATIONS:

- Prough, S. [chair]. (2023, accepted). *Supporting elementary teachers' mathematics classroom discussion practices*. [Symposium]. Papers presented at NCTM Research Conference, Washington, D.C.
- Prough, S. (2023). Uncovering the hidden assumptions of positionality in qualitative research. International Congress of Qualitative Inquiry. Urbana, IL.
- Prough, S. & Gibbons, L. (2023). Challenging teachers' noticing of student participation in mathematics discussion. AMTE. New Orleans, LA.
- Pinilla, R.K., Metzger, C., Wilhelm, A.G., & Prough, S. (2023). Assessing teacher noticing to design for future learning and understand change. AMTE. New Orleans, LA.
- Prough, S., Haley, K., & Gibbons, L. (2022). Tools and talk moves for rich classroom discussion. NCTM Regional Conference. Baltimore, MD.
- Prough, S. (2022, April 26). Not all mothers are white: Expectations of motherhood and parental involvement in schooling. [Symposium] AERA, annual meeting.
- Gibbons, L., Marianno, L., Metzger, C., Prough, S., & Webster, A. (2022, April 19). Responding to elementary teachers' learning needs: Partnering to support student talk in classrooms. 3rd Annual Provost Symposium. University of Delaware.

- Prough, S., Webster, A., & Gibbons, L. (2022, March 11). Unpacking student thinking: CGI interviews as a tool for understanding [Conference session]. *Delaware Council of Math Leaders 2022 Annual Triple Crown Conference*.
- Prough, S. (2021, October 15). Parents are not a scapegoat for math learning loss. *The 43rd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Plenary Session.
- Gibbons, L., Knapp, M., & Prough, S. (2021, October 8). Returning to the classroom: Supporting students' voice. Delaware Math Equity Annual Conference. Powerful moments in mathematics class: Redefining mathematical identities and creating positive memorable experiences for all learners.
- Lord, S. & Prough, S. (2021). Using one-on-one student-teacher conferences to build community and mathematical confidence [Conference session]. National Council of Teachers of Mathematics Annual Meeting and Exposition, Atlanta, GA. (Conference Canceled)
- Prough, S. (2021, May 19 22). Listening to their words instead of putting words in their mouths: An alternative to observation analysis. [Conference session]. *International Congress of Qualitative Inquiry*, Urbana, IL: University of Illinois Urbana-Champaign. https://icqi.org/wp-content/uploads/2021/05/QI2021-Virtual-Program-051821.pdf
- Prough, S., Cordero-Siy, E., Alapala, B., & Ghousseini, G. (2021, May 19 22). Making sense of teacher sensemaking: Unpacking a kaleidoscope of data to place teacher learning in context. [Conference session]. *International Congress of Qualitative Inquiry*, Urbana, IL: University of Illinois Urbana-Champaign.

https://icqi.org/wp-content/uploads/2021/05/QI2021-Virtual-Program-051821.pdf

- Ghousseini, H., Prough, S., Cordero-Siy, E. (2021, Apr 9 12). *Teachers' Collaborative Sensemaking about broadening student participation in mathematics discussions* [Symposium]. AERA Annual Meeting, virtual.
- Prough, S. (2020, June 15-18). *Making mothers and mathematics mix: Exploring the tensions of expectations within motherhood and mathematics education* [Conference session]. Gender and Education Association International Conference, Calgary, CA: University of Calgary. <u>http://www.genderandeducation.com/wp-content/uploads/2020/03/GEA-2020-Program-To-Post.pdf</u> (Conference canceled)
- Prough, S., Ghousseini, H., Cordero-Siy, E., Kazemi, E., McVicar, E. (2020, May 20-23). Teacher learning measured by insights not inches [Conference session]. *International Congress of Qualitative Inquiry*, Urbana, IL: University of Illinois Urbana-Champaign. <u>https://icqi.org/wp-content/uploads/2020/02/QI2020-First-Preliminary-Program.pdf</u> (Conference canceled)
- Prough, S. (2020, May 20-23). Introspection as exposition: Framing personal stories to support critical narrative inquiry. [Conference session] *International Congress of Qualitative Inquiry*, Urbana, IL: University of Illinois Urbana-Champaign. <u>https://icqi.org/wp-content/uploads/2020/02/QI2020-First-Preliminary-Program.pdf</u> (Conference canceled)
- Prough, S. (2020, Apr 17 21) Mothers Can Be Black: Parental Involvement and the Expectations of Mothering [Symposium]. AERA Annual Meeting San Francisco, CA <u>http://tinyurl.com/vydayzc</u> (Conference Canceled)

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- Prough, S. (2020, Apr 17 21) *Beyond Good Versus Bad: Reconceptualizing Normative Motherhood* [Roundtable Session]. AERA Annual Meeting San Francisco, CA <u>http://tinyurl.com/tpgz8ou</u> (Conference Canceled)
- Prough, S. (2018, December 9-12). *Trusting stories: Women's experience in math*. Paper presented at Gender and Education Association International Conference, Newcastle, AU: Newcastle University.
- Veltri, R., Prough, S., & Strachota, S. (2017, July 31-August 2). Supporting Student Generalizing: An Analysis of Classroom Discourse. Poster presented at the 27th Society of Text and Discourse Conference, Philadelphia, PA.

Prough, S., Veltri, R., Strachota, S., Stephens, A., Knuth, E., & Blanton, M. (2017, May 4-5). Supporting Students' Algebraic Reasoning in the Early Grades. Presentation at Wisconsin Mathematics Council Annual Conference (National Council of Teachers of Mathematics-Affiliate), Green Lake, WI.

PROFESSIONAL SERVICE

Journal Reviewer

 National Council of Teachers of Mathematics - Mathematics Teacher: Learning and Teaching 	2019 - present
Conference Proposal Reviewer	
 Association of Mathematics Teacher Educators 	2022 - present
• Psychology of Mathematics Education, North American	2017 - present
Chapter (PME-NA)	-
Professional Memberships	
• National Council of Teachers of Mathematics (NCTM)	2021 - present
• American Educational Research Association (AERA)	2019 - present
• Psychology of Mathematics Education, North American	2017 - present
Chapter (PME-NA)	Ŧ

AWARDS AND HONORS

Plymouth High School, Plymouth, IN	
Most Influential Teacher Award	January 2016
Rock Solid Teacher Award	May 2015
Valparaiso University, Valparaiso, IN	
Lumina Award	May 2012
Ruby Sword of Honor, Sigma Alpha Iota	May 2012