

Education

Ph.D. in Mathematics Education
University of Minnesota, Minneapolis

M.S. in Applied and Computational Mathematics
University of Minnesota, Duluth

M.A. in Counseling Psychology
University of Minnesota, Duluth

Bachelor of Laws (B.L.) in Ideological and Political Education and Administration
Beijing University of Aeronautics and Astronautics, Beijing, China

Research Interest

STEM integration, STEM education, Mathematics and statistics education, Mentoring and tutoring

Publications (recent years)

Peer Review Journal Articles

- Wu, K., Chaphalkar, R., Hecker, M., & Lask, E. (accepted). Hidden strengths of American Indian and Alaska Native students in mathematics as measured by the National Assessment of Educational Progress, *Journal of American Indian Education*.
- Chaphalkar, R., & Wu, K. (accepted). Students' Reasoning about Variability in Graphs during an Introductory Statistics Course. *International Electronic Journal of Mathematics Education*.
- Renga, I.P., Peck, F.A., Wu, K., & Erickson, D. (accepted for Dec 2020-Jan 2021 print issue). Teacher renewal in professional loving communities. *Educational Leadership*.
- Renga, I.P., Peck, F., Feliciano-Semidei, R., Erickson, D., & Wu, K. (2020). Doing math and talking school: Professional talk as producing hybridity in teacher identity and community. *Linguistics and Education*, 55. DOI: 10.1016/j.linged.2019.100766.
- Egan, J. M., Slougher, J. M., Cardoso, T., Trainor, P., Wu, K., Safford, H., & Fournier, D. (2016). Multi-temporal ecological analysis of Jeffrey pine beetle outbreak dynamics within the Lake Tahoe Basin. *Population Ecology*, 1-22.
- Agosto, V., Karanxha, Z., Unterreiner, A., Cobb-Roberts, D., Esnard, T., Wu, K., & Beck, M. (2016). Running bamboo: A mentoring network of women intending to thrive in academia. *NASPA Journal About Women in Higher Education*, 9(1), 74-89.
- Esnard, T., Cobb-Roberts, D., Agosto, V., Karanxha, Z., Beck, M., Wu, K., & Unterreiner, A. (2015). Productive tensions in a cross-cultural peer mentoring women's network: A social capital perspective. *Mentoring & Tutoring: Partnership in Learning*, 23(1), 19-36.
- Pegg, Jerine M., Anne E. Adams, Hilary Smith Risser, SueAnn I. Bottoms, Anne L. Kern, and Wu, K. (2014). Finding FRiENDs: Creating a Community of Support for Early Career Academics. *Brock Education*, 24(1), 47-54.
- Bottoms, S., Pegg, J., Adams, A., Wu, K., Smith Risser, H., & Kern, A. L. (2013). Mentoring from the outside: The role of a peer mentoring community in the development of early career education faculty. *Mentoring & Tutoring: Partnership in Learning*, 21(2), 195-218.

Harwell, M., Medhanie, A., Post, T., **Wu**, K., and Dupuis, D. N., (2012). Preparation of students for completing a Core-Plus or commercially developed high school mathematics curriculum for intense college mathematics coursework, *Journal of Experimental Education*, 80(1), 96-112.

Referred Book Chapters, Encyclopedias, and Monographs

Bottoms, S., Pegg, J., Adams, A., Risser, H., & **Wu**, K. (2020). Mentoring within communities of practice. In B. Irby & L. Searby (Eds.), *The Wiley-Blackwell international handbook of mentoring: Paradigms, practices, programs, and possibilities*.
<https://doi.org/10.1002/9781119142973.ch10>

Cobb-Roberts, D., Esnard, T., Unterreiner, A., Agosto, V., Karanxha, Z., Beck, M., & **Wu**, K. (2017). Mentoring, gender, and cross-racial relationships. In Clutterbuck et al. (Eds.), *The SAGE Handbook of Mentoring*. SAGE Publications Inc.

Wu, K., Thorsos, N., & Kern, A.L. (2016). Dynamics of tensions and a sense of belonging in an informal peer mentoring community of women faculty. In B. G. Johnanessen (Ed.), *Global Co-Mentoring Networks in Higher Education: Politics, Policies, and Practices*. Dordrecht: Springer.

Adams, A. E., Pegg, J. M., Bottoms, S., Smith Risser, H., **Wu**, K., & Kern, A. L. (2016). Storying our academic career transitions within a peer mentoring community. In B. G. Johnanessen (Ed.), *Global Co-Mentoring Networks in Higher Education: Politics, Policies, and Practices*. Dordrecht: Springer.

Chaphalkar, R. M., & **Wu**, K. (2015). Academic Service Learning projects in college introductory statistics: effects on students' attitude. In V.M. Jagla, A. Furco, & J. R. Strait (Eds.), *Service-Learning Pedagogy: How Does It Measure Up?* Charlotte, NC: Information Age Publishing.

Unterreiner, A., Four-Babb, J.D., Kern, A., & **Wu**, K. (2015). Women's ways of collaborating: A study of cross-cultural peer mentoring. In Kochan, F., Kent, A., & Green, A. (Eds.), *Uncovering the Hidden Cultural Dynamics in Mentoring Programs and Relationships: Managing the Complexities, Volume 4: Perspectives in Mentoring Series*. Charlotte, NC: Information Age Publishing.

Sriraman, B., & **Wu**, K. (2014). "Embodied Cognition." Lerman, S (Ed), *Encyclopedia of Mathematics Education: Springer Reference*. Springer-Verlag Berlin Heidelberg. DOI: 10.1007/SpringerReference_353628 2013-03-12 18:16:00 UTC.

Recent Grant and Project

PI. (2017-2022). **Wu**, K., Hall, R., Brown, B., & Patterson, M. National Science Foundation AGEF, Collaborative Research: The Willow AGEF Alliance: A Model to Advance Native American STEM Faculty. (Amount: \$1,854,323)

PI/Co-PI. (2014-2021). **Wu**, K., McNulty, J., McKinnie, K., & Stone, E. National Science Foundation - Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM), Increasing Diversity in Mathematics. (Amount: \$607,911)

Co-PI. (2015-2019). Thomas, A., & **Wu**, K. National Science Foundation. Tribal College Faculty Professional Development. (Total Amount: \$363,144)

Co-PI. (2017). Roscoe, M., Peck, F., **Wu**, K., & Erickson, D. Montana OCHE Title II. Problem Solving Pathways to Concurrent Enrollment Courses. (Amount: \$115,000).

- Co-PI. (2017). Thomas, A., Peck, F., & **Wu**, K. Science is Cool Montana. Montana GEAR UP grant. (Amount: \$32,300).
- Co-PI. (2017-2018). Peck, F., Roscoe, M., Wu, K., & Erickson, D. National Security Agency - STEM Education Partnership Program (MEPP). The Montana Math Teachers' Circle. (Amount: \$49,983).
- PI. (2016). **Wu**, K., Roscoe, M., Peck, F., & Erickson, D. Montana Office of the Commissioner of Higher Education (OCHE), Title II Program. Montana Mathematics Teachers' Circles. (Amount: \$119,485)