



Post-doctoral Fellowship Opportunity 2018-2020

A unique opportunity for a post-doctoral fellow in mathematics education exists at the University of Michigan School of Education. The project is funded by the J.S. McDonnell Foundation and is focused on understanding the instructional decisions of secondary mathematics teachers of algebra and geometry. The project builds on earlier work by Herbst and Chazan on the *practical rationality* of mathematics teaching as well as on research on students' thinking and classroom discourse. The postdoctoral fellow will be directly involved in two studies: A comparison (using multimedia simulations) of how experienced and beginning teachers make decisions that concern the management of students' responses in the context of novel tasks in geometry and algebra, and a set of design research studies of lessons in collaboration with four expert teachers.

We are looking for an individual who is ambitious, hard-working, and motivated to spend time increasing his or her research and writing skills. We hope to find an individual who is committed to scholarship that advances the growth of knowledge for the public good and somebody who can contribute to, as well as benefit from, the lab culture of the GRIP, a research group with more than 15 years of continued existence. Currently counting 12 members, including faculty, graduate and undergraduate students, and technicians, the GRIP has 4 funded projects at different stages of development and archival data from completed projects available for secondary analysis. The successful applicant needs to be eager to work collaboratively, able to work on our Ann Arbor campus and to travel as needed, able to maintain simultaneous attention to a variety of tasks, and amenable to taking initiative as well as responding positively to direction. Working knowledge of multiple methodologies is a plus, while disposition to learn new methods is an expectation. We are especially interested in scholars with substantial interests in understanding the work of, and knowledge involved in, teaching high school algebra and geometry. Experience as a high school mathematics teacher is a welcome addition. Broader knowledge of the literature on research on teaching and teacher knowledge is desirable. Near native command of the English language (speaking and writing) is required. This is a 12-month appointment and funds are available for a multi-year appointment, with potential for immediate (or negotiable) starting date and salary is competitive.

The University of Michigan in general and the School of Education in particular offer an excellent intellectual environment to start a scholarly career. Opportunities for involvement in teaching may be procured to complement the experience.

To express interest please contact Pat Herbst (pgherbst@umich.edu, 734-763-3745). Attach a CV, a sample of scholarly writing, and names and contact information of potential recommenders.