

General Request for proposals
23rd Conference of the Special Interest Group of the Mathematical Association of America
on Research in Undergraduate Mathematics Education (SIGMAA on RUME)

February 27-29, 2020
Boston, MA

The 23rd annual SIGMAA on RUME conference will be held in Boston, MA, from Thursday, February 27, 2020, to Saturday, February 29, 2020. We, the Conference Program Committee, hope that you are excited to attend the conference and share your work with the SIGMAA on RUME research community. **We invite you to submit a proposal to the conference. Proposals for contributed, theoretical, and preliminary reports are due by 11:59 PM (Pacific Time) on August 30th, 2019, and proposals for posters are due by 11:59 PM (Pacific Time) on November 22th, 2019.**

All information about the conference can be found on the conference website:

<http://sites.bu.edu/sigmaa-rume>

Encouraged focus of papers

The SIGMAA on RUME conference includes research focused on the teaching and learning of mathematics at the undergraduate level as well as papers on related topics that are relevant to this body of research.

The program committee encourages submissions about issues of teaching and learning of collegiate-level mathematics in areas such as proof, calculus, college algebra, statistics, combinatorics, and upper-level mathematics classes, as well as in areas such as graduate preparation of future college mathematics faculty, equity and social justice, work related to the professional preparation and development of K-12 teachers, and research on teaching of adults in other formal and informal settings. Each proposal will be judged on its individual merits, with evaluation based on the quality of the work and its relevance to the RUME community. Keeping this broad reading of RUME in mind, we encourage the submission of four different kinds of reports:

- Contributed Research Reports
- Preliminary Research Reports
- Theoretical Reports
- Poster Reports.

Contributed Reports, Preliminary Reports, and Poster Reports (when applicable) must have data collected by the time of the proposal submission. Theoretical reports, by their nature, might not reference any empirical data at all. The four types of reports are described in further detail below.

Two rounds of papers are submitted to the Conference Management System before the conference:

- Round 1—the blinded proposal: In the original submission, you are asked to submit a blinded version, without author information.

- Round 2—the unblinded proceedings paper: If your proposal is accepted for the proceedings, you will need to submit a new, unblinded version. These unblinded proceedings papers will be included in the conference proceedings.

Reviewing, Submission, and Registration Requirements

Reviewing Requirement

In order to evenly distribute responsibility for reviewing—and to ensure we have enough reviewers—there is an expectation that at least one author from each proposal will review up to three other proposals.

- Proposals where the entire author team is “new to RUME” are exempted from this requirement. An author is considered “new to RUME” if they are an undergraduate student, a graduate student who has only attended one RUME conference, or a faculty member or postdoc who has not previously published mathematics education research or attended mathematics education conferences.
- In the submission process, you will be able to indicate which author(s) will serve as reviewers or if the entire author team is new to RUME. If a person is listed as an author on multiple submissions, they may be asked to review more than three proposals.

Submission Requirement

All accepted proposals must have a camera-ready version (i.e., correctly-formatted, un-blinded PDF of a proceedings paper) submitted to the conference management system by 11:59 PM (Pacific Time) on January 3, 2020, in order for the paper to appear in the conference proceedings.

Registration Requirement

All accepted proposals must have at least one author registered for the conference by January 31, 2020. If no authors are registered by this date, the paper will not appear in the conference proceedings.

Due dates

All proposals must be submitted to the CMT by the dates listed below.

- For *contributed, theoretical and preliminary* reports, the proposals will be due by **11:59 PM (Pacific Time) on Friday, August 30th, 2019**. We expect to notify you about the status of your proposal by the beginning of November.
- For *posters*, the 1-page proposals will be due on **11:59 PM (Pacific Time) on Monday, November 22th, 2019** (although you are welcome and encouraged to submit them earlier). We expect to notify you about the status of your proposal by the second week of December.

- For *working groups*, the proposals will be due on **11:59 PM (Pacific Time) on Monday, September 2nd, 2019**. See the separate RFP for working group proposals on the conference website.

Types of submissions

Contributed Research Reports

The SIGMAA on RUME aims to foster a professional atmosphere for quality research in the teaching and learning of undergraduate mathematics and related topics. We solicit proposals for contributed research reports presenting results from completed research studies in undergraduate mathematics education that address *one or more of* the following themes:

- results of current research
- contemporary theoretical perspectives and research paradigms
- innovative methodologies and analytical approaches as they pertain to the study of undergraduate mathematics education or related topics.

Contributed reports can have a **maximum of 7 pages**. The title, authors, abstract, keywords, and the body of the paper (**including** tables and figures) all count towards the 7-page limit. *References do not count toward the page limit*. However, any author information (that you add when un-blinding your paper) *does* count toward the page limit. Papers longer than 7 pages will be returned un-reviewed.

Preliminary Research Reports

The SIGMAA on RUME seeks to support the professional development of new researchers and new research ideas in the field of undergraduate mathematics education. To foster constructive discussions toward this goal, we encourage graduate students, new PhDs, undergraduate mathematics educators, and experienced researchers to present preliminary reports on ongoing research projects in early stages of analysis, although, ***they must have data collected at the time of proposal submission*** (*proposals without data will be rejected*). At the conference, significant discussion time will follow each presentation to allow for feedback and suggestions for future directions for the research. Proposals for preliminary reports are *encouraged* to include a list of questions that will be posed to the audience during the discussion portion of presentation to help further the research.

Preliminary reports can be a **maximum of 5 pages**. The title, abstract, keywords, and the body of the paper (**including** tables and figures), and intended questions for the audience all count towards the 5-page limit. *References do not count toward the page limit*. However, any author information (that you add when un-blinding your paper) *does* count toward the page limit. Papers longer than 5 pages will be returned un-reviewed.

Theoretical Reports

The SIGMAA on RUME seeks to support the development of new theoretical perspectives for research in undergraduate mathematics education. Proposals in this category must explicate the theoretical perspective in detail and explain why existing theories do not adequately account for the phenomenon in question.

Theoretical reports can be a **maximum of 7 pages**. The title, abstract, keywords, and the body of the paper (**including** tables and figures) count towards the 7-page limit. *References do*

not count toward the page limit. However, any author information (that you add when un-blinding your paper) *does* count toward the page limit. Papers longer than 7 pages will be returned un-reviewed.

Posters

The SIGMAA on RUME recognizes that some types of work are better presented in poster format than a traditional presentation. While not meant to be exclusive, two common types of Poster Reports are:

- a methodological presentation which could be better illustrated on a poster, and for which the one-on-one interactions possible during a poster session could be a better opportunity for other researchers to learn or adapt techniques than a standard conference presentation would provide
- a poster that illustrates the connections between a collection of studies by one researcher or research group.

Poster *reports* are distinct from the posters themselves in that they are 1-page documents that are formatted like the other reports, including a title, abstract, body, and references. The body of the poster report should, when relevant, include the same components as the other reports (e.g., motivation, research questions, literature/citations, methods, results, and discussion), but only the most salient aspects of each (e.g., the literature review might only highlight the key studies your research builds on and might only be 1-2 sentences long). Poster reports can be a **maximum of 1 page**. The title, abstract, keywords, and the body of the paper (**including** tables and figures) all count towards the 1–page limit. *References do not count toward the page limit.* However, any author information (that you add when un-blinding your paper) *does* count toward the page limit. Papers longer than 1 page will be returned un-reviewed. An abstract is *required* for a poster submission. Authors of accepted poster reports will be given a 36-inch by 48-inch trifold board at the conference to present their poster.

Working Groups

Please see the separate RFP for working groups, which is available on the conference web site.

Required Proposal Content

All proposals must address as many of the following considerations as possible:

- An explicit statement of the question(s) or issue(s) the research explores.
- Relation of this work to the research literature
- Theoretical perspective and/or conceptual framework
- Research methodology—including, when possible, a statement about the demographics of the participants (e.g., gender, race/ethnicity, etc.) in addition to the characteristics of the institutional context(s), and researcher demographics.
- Results of the research
- Applications to/implications for teaching practice or further research
- A list of references should be given at the end of the proposal (not included in the page limit of the proposals).

Formatting Guidelines and Submission Process

Formatting guidelines, including a template document, and the Submission guidelines are available on the conference website. The conference website: <http://sites.bu.edu/sigmaa-rume/>

We will use the Microsoft conference management system (CMT) to solicit proposals. The link below will take you to the conference management system:
<https://cmt3.research.microsoft.com/CRUME2020>

After the Conference

The SIGMAA on RUME publishes conference proceedings. All accepted and unblinded preliminary, contributed, theoretical, and poster reports will appear in the RUME 23 Conference Proceedings.

Questions?

Questions about the scientific program or about paper submission should be emailed to the **Conference Chairperson, Shiv Smith Karunakaran (karunak3@msu.edu)**.

Questions about the venue (e.g., hotel, transportation, or registration) should be emailed to the **Local Organizing Committee, at rumeBoston@gmail.com**.