

## Mathematics Education Research - Season School

### Mixed Methods in Mathematics and Science Education Research (STEM) Season School

#### **2nd Season School on Mixed Methods in Mathematics and Science Education Research (STEM) Call for Applications**

12 - 13 March 2018

Barcelona, Spain

Application Deadline: 30 January 2018

**To apply to the summer school, please, visit the following link:**

<http://bit.ly/2B9K754>

Mathematics Education Research (NW24) likes to encourage contributions relating to all fields of mathematics and science education research, and in particular those comparing across regions and cultures.

#### **Aims of this season school:**

- Promote excellent training in mixed methods to PhD candidates and other scholars in mathematics education research.
- Create a space for participants to discuss with senior researchers in mathematics and science education about research and share examples based on their expertise.
- Encourage networking and include young researchers in the European scientific community of mathematics education researchers.

#### **Rationale:**

European research (European Commission, etc.) is seeking for excellent research promoting not only scientific impact, but also social and political. In this sense, the main contributions done in terms of research during the last decade suggest that researchers should develop and apply inclusive methodologies to work with rather than on their target populations, especially when they belong to vulnerable groups. Our society asks for scientific evidence to improve lives and expectations. This is our challenge to find ways to do so, drawing on rigorous methodologies, but at the same time inclusive and respectful with the individuals.

The main research journals on methodologies (Qualitative Inquiry, Journal of Mixed Methods Research, among other top ranked international journals) include articles that are the more and more concern about the real change that our research does to overcome the society demands. Many questions arose in this



situation: what does it mean reliability in this frame? What should I do: quantitative or qualitative? Are mixed methods the best solution to reach my goals?

Quantitative research has been largely used to do international assessment and testing, such as PISA, PIRLS or TIMSS, which results have a strong impact even in political decisions. Qualitative methods also are widely used by researchers to analyse in depth how individuals are able to solve problems, use algorithms with understanding, represent / display data, etc.

Last year the NW24 Season School on Mixed methods in mathematics and science education research became a great space for junior and senior researchers to discuss on methodologies and move forward. It was also a space for many questions to arise, which enriched largely participants work and deep thinking.

This second edition we aim to keep working on how to reach good and excellent work through using critically different methodological approaches and paradigms. As last year, and having in mind that the methodology is probably the most important aspect in our work as researchers, since the reliability of our discussions, conclusions and contributions depends importantly on how accurate are we in using the methodology, the idea is to provide a setting to PhD candidates and other scholars to receive a high quality training in research methods, focused on mathematics education.

### **The season school will offer:**

Keynote speeches with some of the most prominent experts in qualitative and quantitative methods in Europe. Participants will have the opportunity to discuss with them innovative methodological approaches, instruments, data analysis, how to design research programs, etc. All participants will have also the possibility to present their work, receive feedback from the audience, and listen to the contributions of experienced scholars in the field of mathematics and science education.

### **Who can attend?**

The target groups include:

- PhD candidates in mathematics and science education research
- Other scholars in mathematics and science education research

There is no tuition fee, but participants must cover their travel costs (transportation). Accommodation and meals (breakfast and lunch) would be provided by the organization. Costs for other social activities will be covered by the Season School organization as well.

### **How to apply?**

Candidates can apply by following this [link](#) and by scanning the application on the [flyer](#) and sending their paper to [jdiezpalomar@ub.edu](mailto:jdiezpalomar@ub.edu)

All applications will be evaluated for acceptance.

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